

Photometric Test Report



ArcSpot SVW

IP66 Spot featuring 1'600 lumen with
7 x 4W Variable White source,
10° native

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| Beam angle 10°+30°x60° Filter | 30 |
| Color preset Warm White | |
| Beam angle 10° | 35 |
| Beam angle 10°+20° Filter | 40 |
| Beam angle 10°+40° Filter | 45 |
| Beam angle 10°+60° Filter | 50 |
| Beam angle 10°+10°x60° Filter | 55 |
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| Color preset Cold White | |
| Beam angle 10° | 65 |
| Beam angle 10°+20° Filter | 70 |
| Beam angle 10°+40° Filter | 75 |
| Beam angle 10°+60° Filter | 80 |
| Beam angle 10°+10°x60° Filter | 85 |
| Beam angle 10°+30°x60° Filter | 90 |
| Color preset 2700K | |
| Beam angle 10° | 95 |
| Beam angle 10°+20° Filter | 100 |
| Beam angle 10°+40° Filter | 105 |
| Beam angle 10°+60° Filter | 110 |
| Beam angle 10°+10°x60° Filter | 115 |
| Beam angle 10°+30°x60° Filter | 120 |

Color preset 3200K

| | |
|-------------------------------|-----|
| Beam angle 10° | 125 |
| Beam angle 10°+20° Filter | 130 |
| Beam angle 10°+40° Filter | 135 |
| Beam angle 10°+60° Filter | 140 |
| Beam angle 10°+10°x60° Filter | 145 |
| Beam angle 10°+30°x60° Filter | 150 |

Color preset 4000K

| | |
|-------------------------------|-----|
| Beam angle 10° | 155 |
| Beam angle 10°+20° Filter | 160 |
| Beam angle 10°+40° Filter | 165 |
| Beam angle 10°+60° Filter | 170 |
| Beam angle 10°+10°x60° Filter | 175 |
| Beam angle 10°+30°x60° Filter | 180 |

Color preset 5600K

| | |
|-------------------------------|-----|
| Beam angle 10° | 185 |
| Beam angle 10°+20° Filter | 190 |
| Beam angle 10°+40° Filter | 195 |
| Beam angle 10°+60° Filter | 200 |
| Beam angle 10°+10°x60° Filter | 205 |
| Beam angle 10°+30°x60° Filter | 210 |

Color preset 6500K

| | |
|-------------------------------|-----|
| Beam angle 10° | 215 |
| Beam angle 10°+20° Filter | 220 |
| Beam angle 10°+40° Filter | 225 |
| Beam angle 10°+60° Filter | 230 |
| Beam angle 10°+10°x60° Filter | 235 |
| Beam angle 10°+30°x60° Filter | 240 |

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:

1697 lm

Peak candela output:

33590 cd

Light quality:

CRI: 93,9

Color temperature:

4277 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10°

Target:

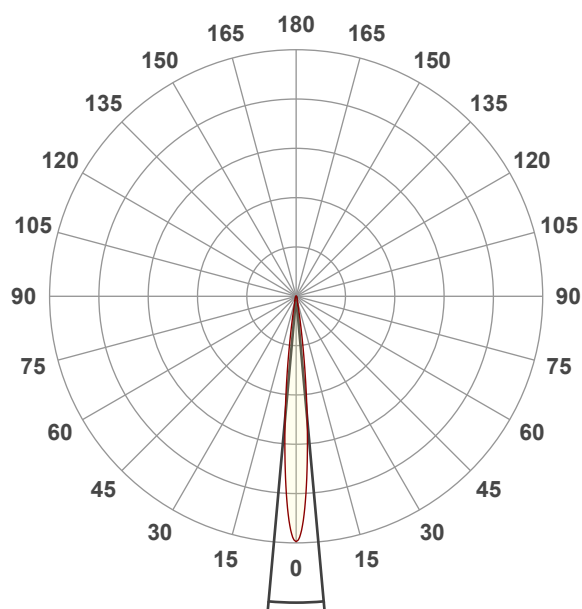
Full On

Operator:

Salvatore Giglio

Date and time:

19/02/2024 16:02:12

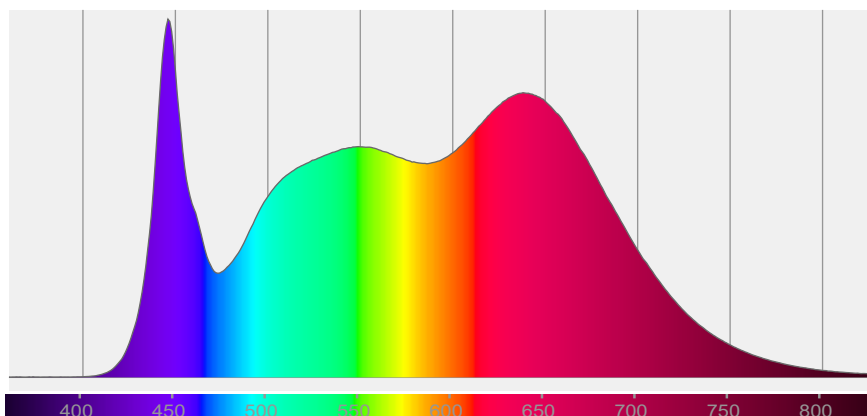


Beam angle 50%: 10,3°

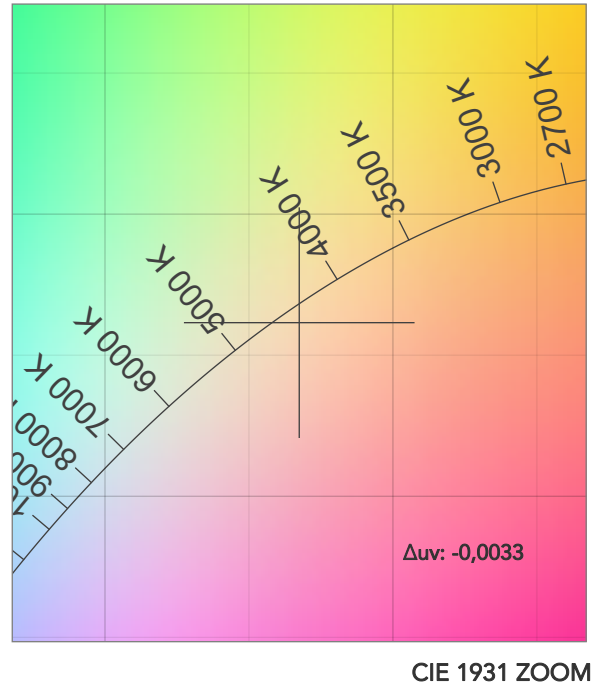
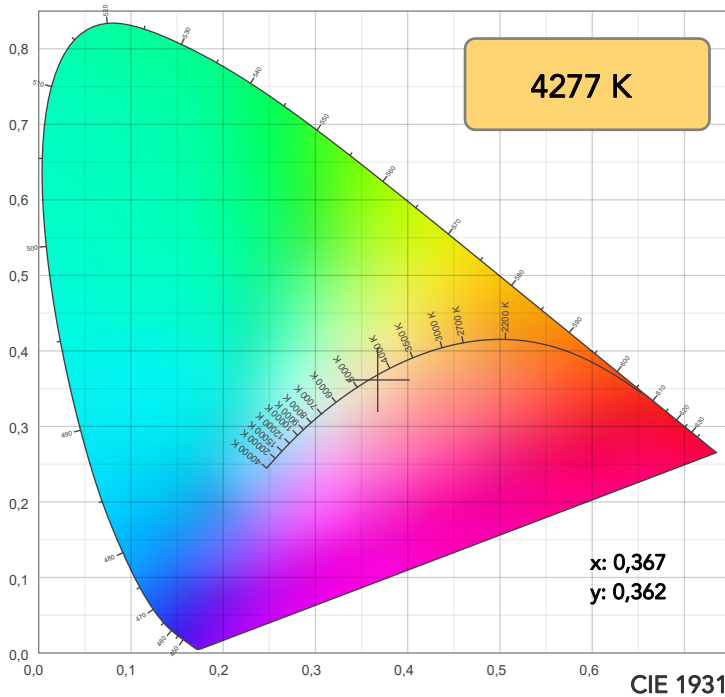
Field angle 10%: 18,7°

Cut off angle 2.5%: 27,6°

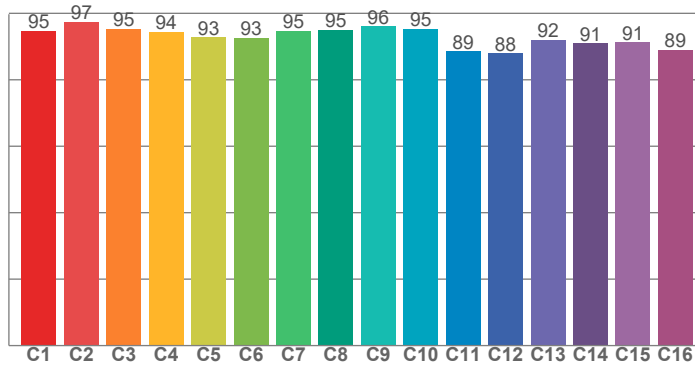
Spectra



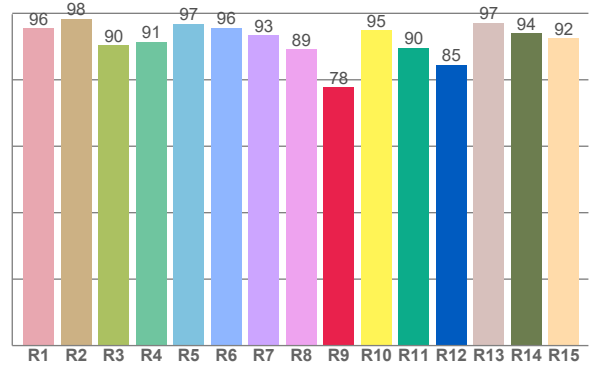
COLOR DETAILS



TM30: 93,2



CRI: 93,9 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,6 | 98,4 | 90,5 | 91,4 | 96,9 | 95,6 | 93,3 | 89,1 | 77,8 | 95,0 | 89,6 | 84,5 | 97,2 | 94,1 | 92,5 |

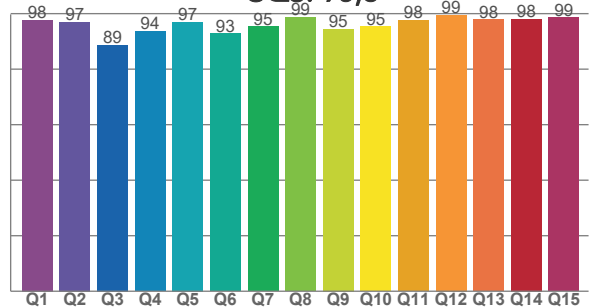
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,7 | 97,4 | 95,3 | 94,5 | 92,8 | 92,6 | 94,7 | 95,0 | 96,1 | 95,3 | 88,5 | 87,9 | 92,0 | 90,9 | 91,2 | 89,0 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 97,7 | 96,9 | 88,6 | 93,6 | 97,0 | 92,9 | 95,4 | 98,7 | 94,5 | 95,3 | 97,6 | 99,5 | 97,8 | 98,1 | 98,6 |

CQS: 95,3



COLOR PARAMETERS

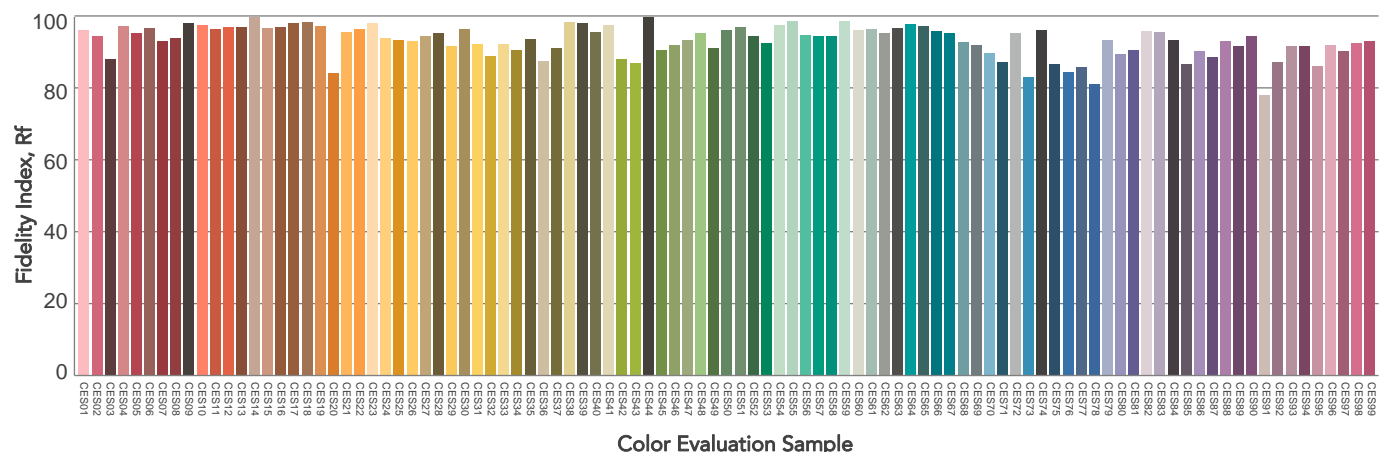
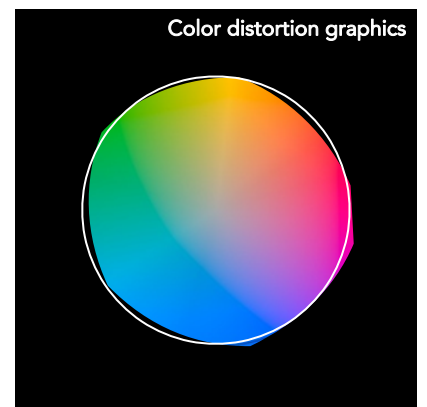
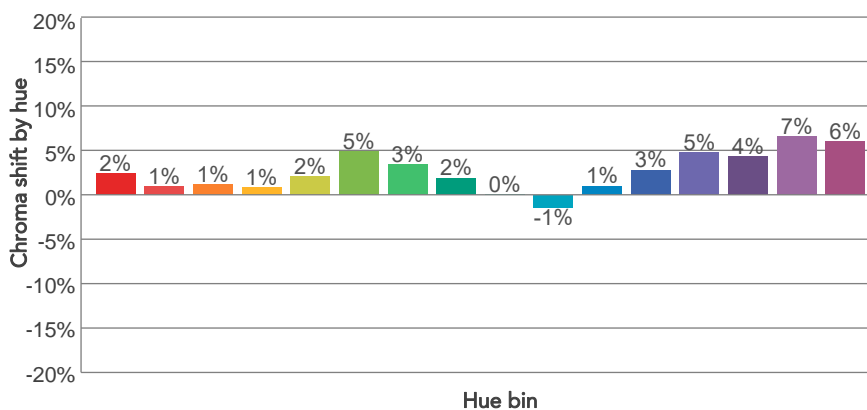
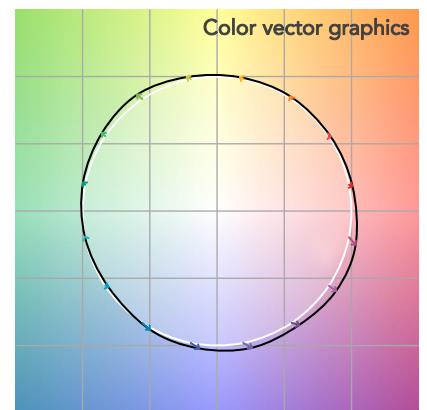
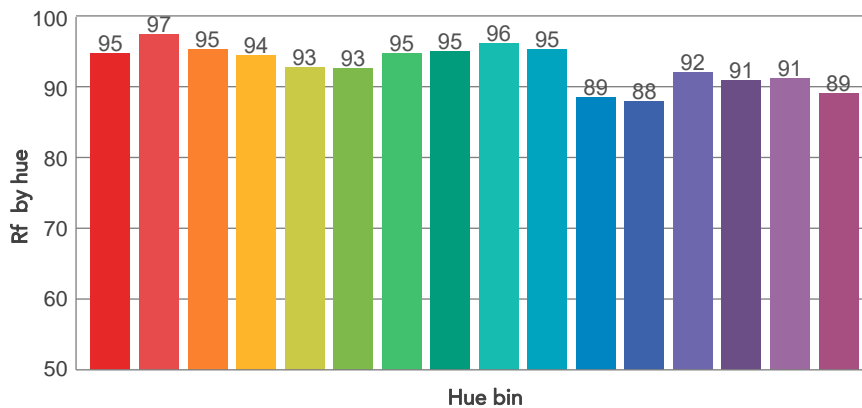
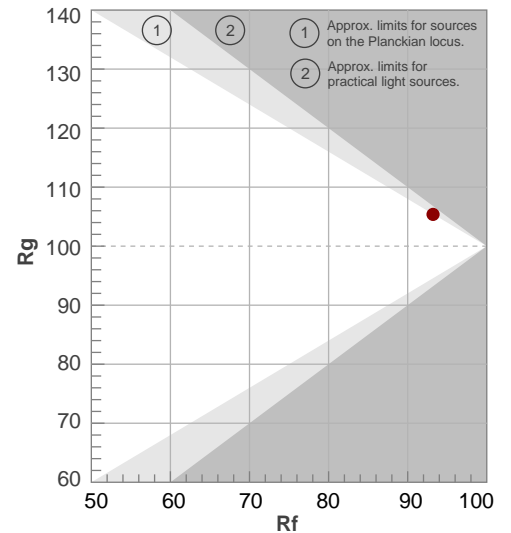
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 4277 K | 93,9 | 77,8 | 93,2 | 105,4 | 95,3 | 97 | 0,367 | 0,362 | -0,0033 |

TM30 DETAILS

Rf 93,2
Fidelity index Rf

Rg 105,4
Gammut index

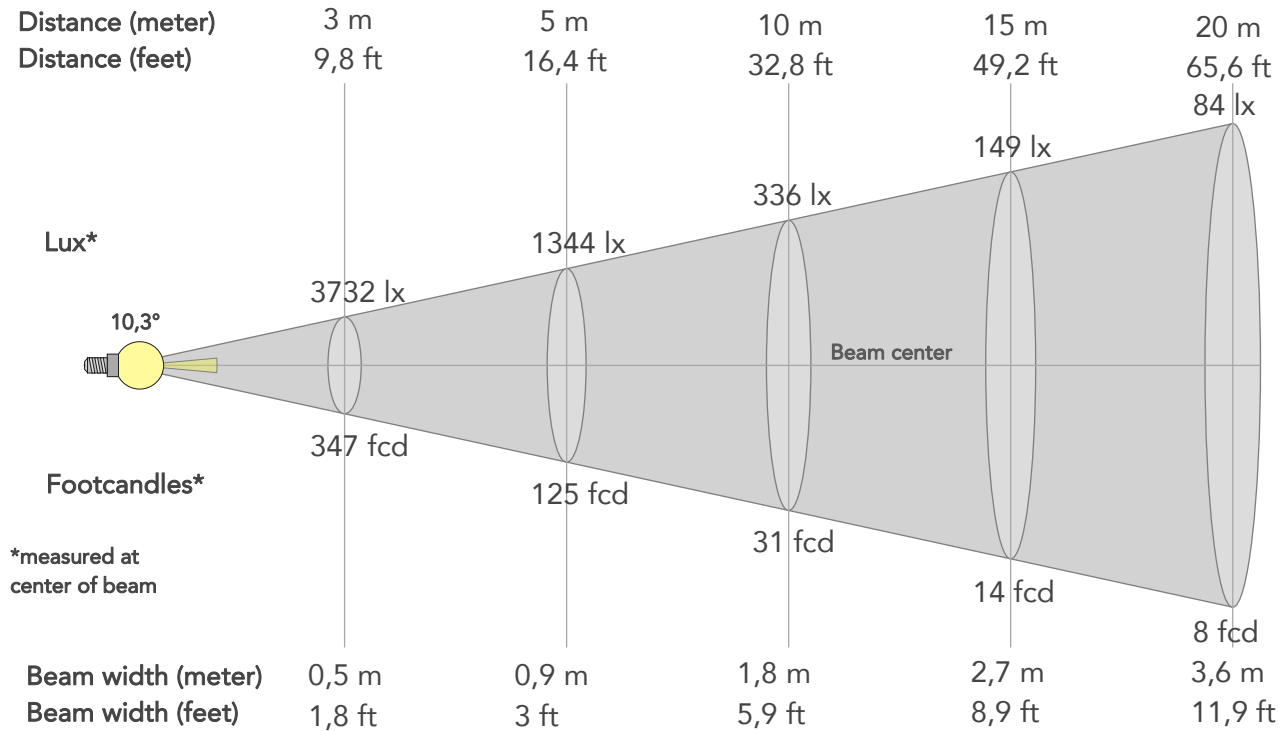
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 95 | 2% | -2% |
| 2 | 97 | 1% | -1% |
| 3 | 95 | 1% | 2% |
| 4 | 94 | 1% | 3% |
| 5 | 93 | 2% | 3% |
| 6 | 93 | 5% | 1% |
| 7 | 95 | 3% | -1% |
| 8 | 95 | 2% | -1% |
| 9 | 96 | 0% | 0% |
| 10 | 95 | -1% | 2% |
| 11 | 89 | 1% | 7% |
| 12 | 88 | 3% | 7% |
| 13 | 92 | 5% | 5% |
| 14 | 91 | 4% | 4% |
| 15 | 91 | 7% | 0% |
| 16 | 89 | 6% | -5% |



BEAM DETAILS



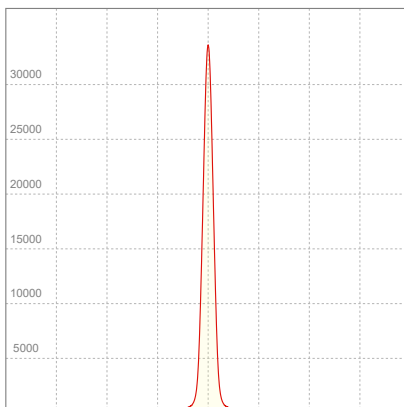
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 10,3° | 18,7° | 27,6° | 97,4% | 94,4% |



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 | 33590lx | 8397lx | 3732lx | 2099lx | 1344lx | 597lx | 336lx | 149lx | 84lx | 54lx | 37lx | 21lx | 13lx |
| Footcand. | 3121fcd | 780fcd | 347fcd | 195fcd | 125fcd | 55fcd | 31fcd | 14fcd | 8fcd | 5fcd | 3fcd | 2fcd | 1fcd |
| Beam wid. | 0,2m | 0,4m | 0,5m | 0,7m | 0,9m | 1,4m | 1,8m | 2,7m | 3,6m | 4,5m | 5,4m | 7,2m | 9m |
| Beam wid. | 0,6ft | 1,2ft | 1,8ft | 2,4ft | 3ft | 4,4ft | 5,9ft | 8,9ft | 11,9ft | 14,8ft | 17,8ft | 23,7ft | 29,6ft |

LINEAR DISTRIBUTION DIAGRAM

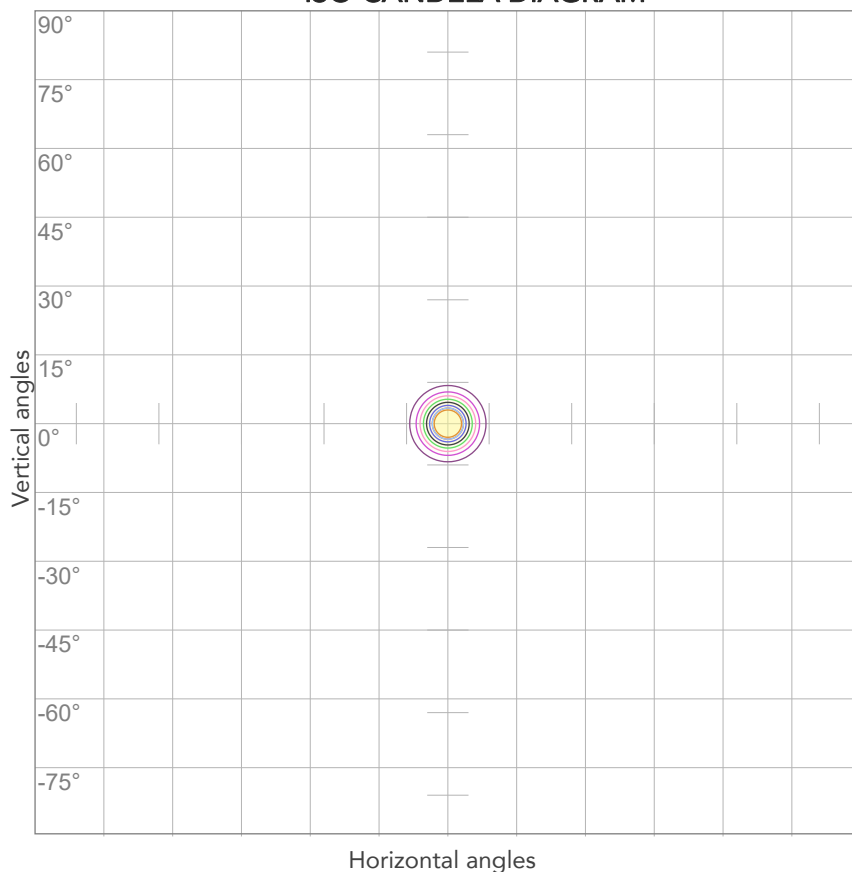


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Effeciency |
|---------------|---------------|-------------|----------|------------|
| 227V | 0,146A | 31,8W | 0,96 | 53lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



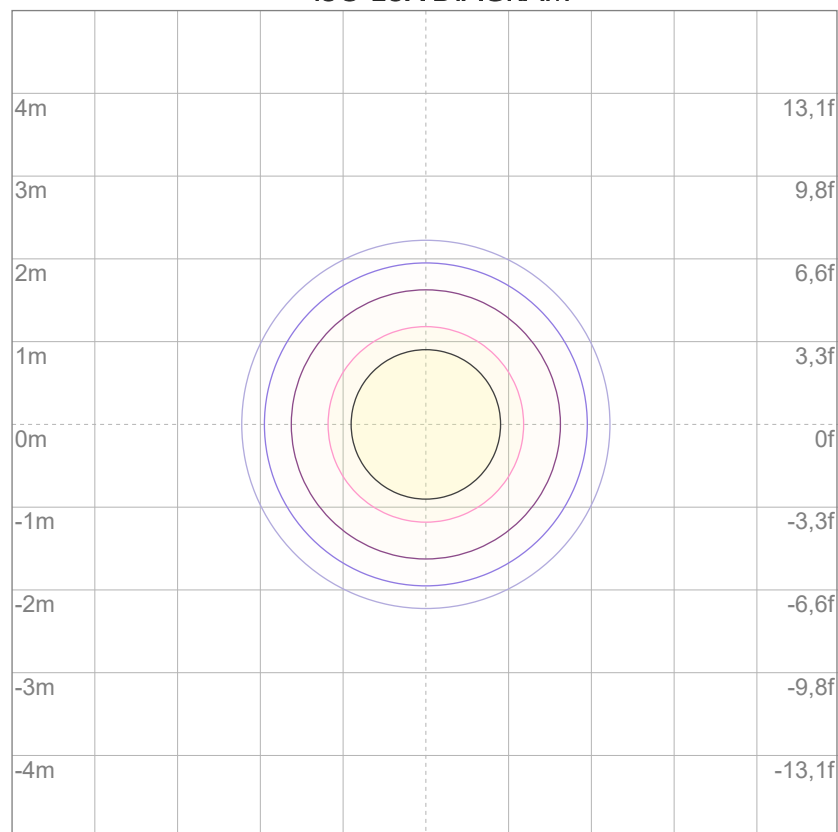
| | |
|-----|----------|
| 10% | 3359 cd |
| 20% | 6718 cd |
| 30% | 10077 cd |
| 40% | 13436 cd |
| 50% | 16795 cd |
| 60% | 20154 cd |
| 70% | 23513 cd |
| 80% | 26872 cd |

Conditions:

Number of c-planes: 2

Candela at center: 33590 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 10,1 lx |
| 5% | 16,8 lx |
| 10% | 33,6 lx |
| 30% | 101 lx |
| 50% | 168 lx |

Conditions:

Number of c-planes: 2

Lux at center: 336 lx

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



Total lumen output:

1529 lm

Peak candela output:

6251 cd

Light quality:

CRI: 93,8

Color temperature:

4255 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 20° Filter

Target:

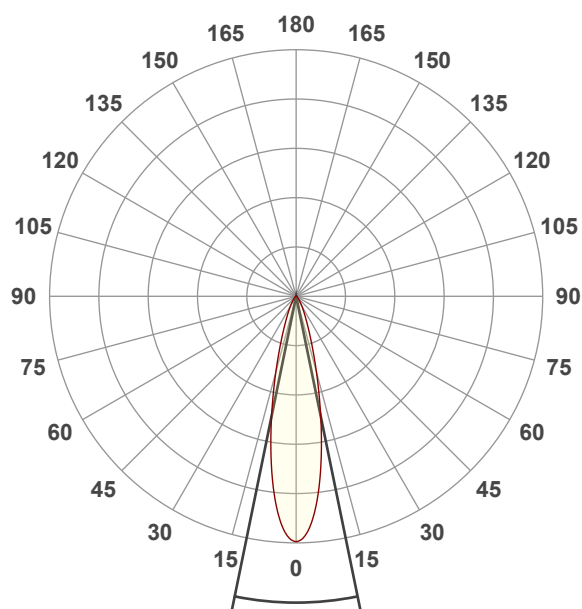
Full On

Operator:

Salvatore Giglio

Date and time:

19/02/2024 17:10:52

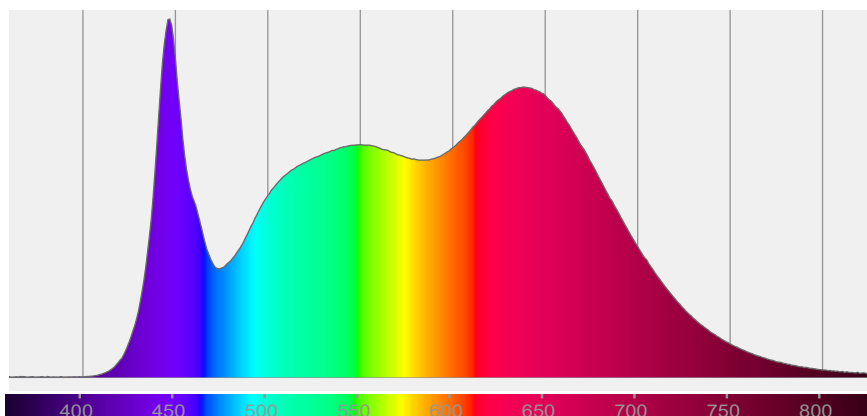


Beam angle 50%: 23,1°

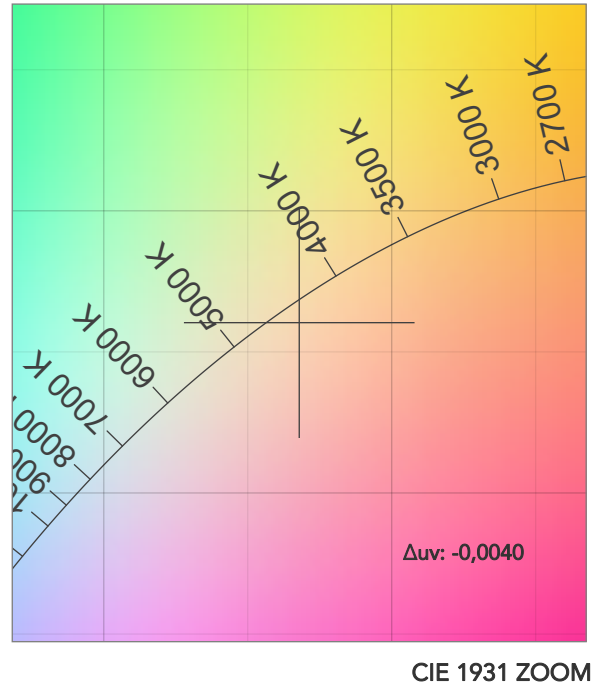
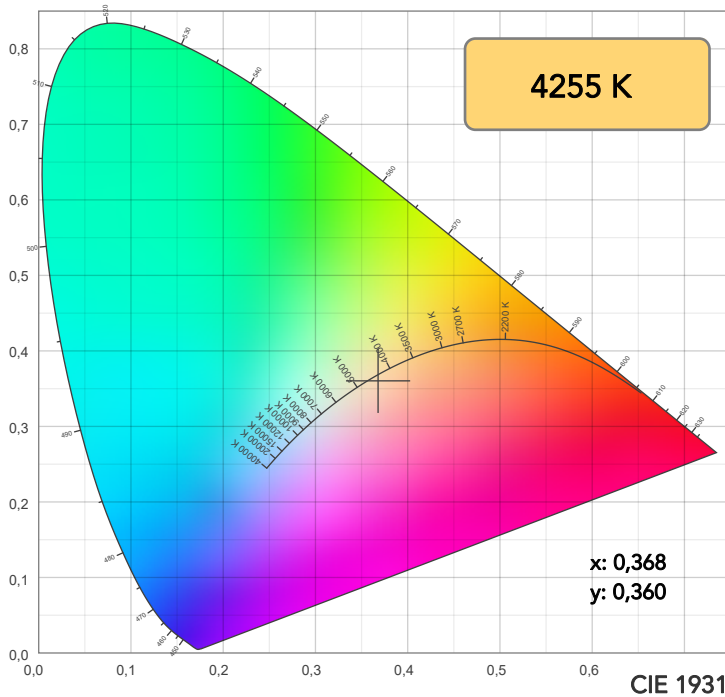
Field angle 10%: 46,9°

Cut off angle 2.5%: 72,6°

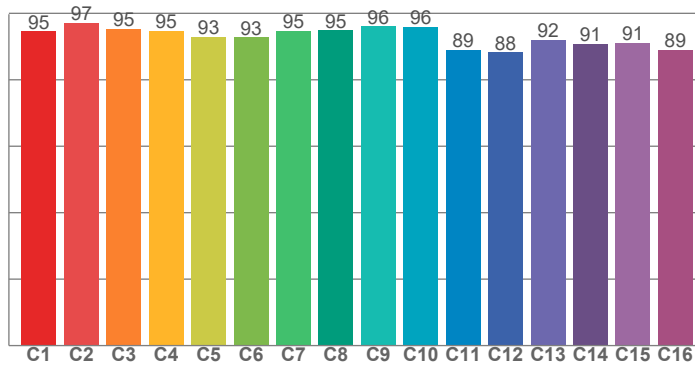
Spectra



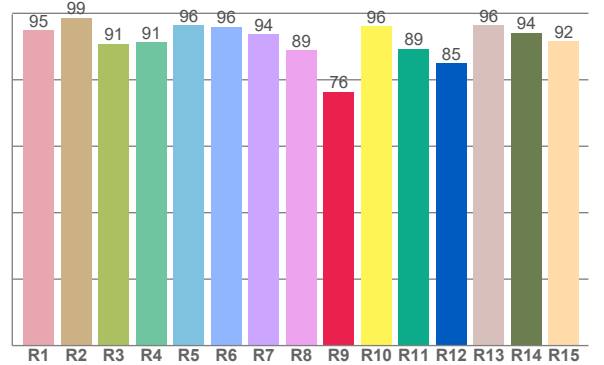
COLOR DETAILS



TM30: 93,2



CRI: 93,8 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,9 | 98,7 | 90,8 | 91,3 | 96,3 | 96,0 | 93,6 | 88,8 | 76,4 | 96,0 | 89,4 | 84,9 | 96,4 | 94,2 | 91,6 |

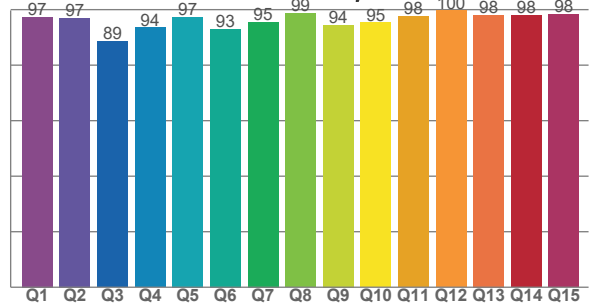
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,6 | 97,1 | 95,3 | 94,7 | 92,8 | 92,7 | 94,8 | 94,9 | 96,0 | 96,0 | 88,9 | 88,2 | 92,1 | 90,9 | 91,2 | 89,0 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 97,4 | 96,9 | 88,6 | 93,6 | 97,4 | 93,1 | 95,5 | 98,7 | 94,5 | 95,4 | 97,6 | 99,6 | 98,0 | 98,0 | 98,3 |

CQS: 95,3



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 |
| 4255 K | 93,8 | 76,4 | 93,2 | 105,5 | 95,3 | 97 | 0,368 | 0,360 | -0,0040 |

TM30 DETAILS

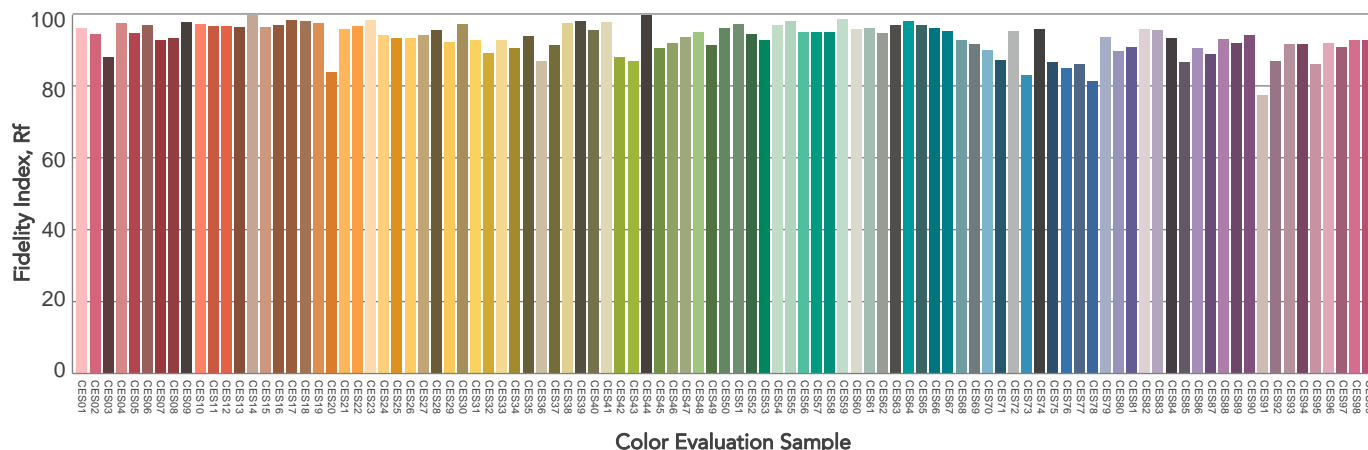
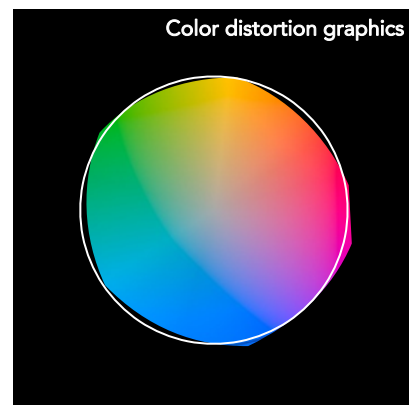
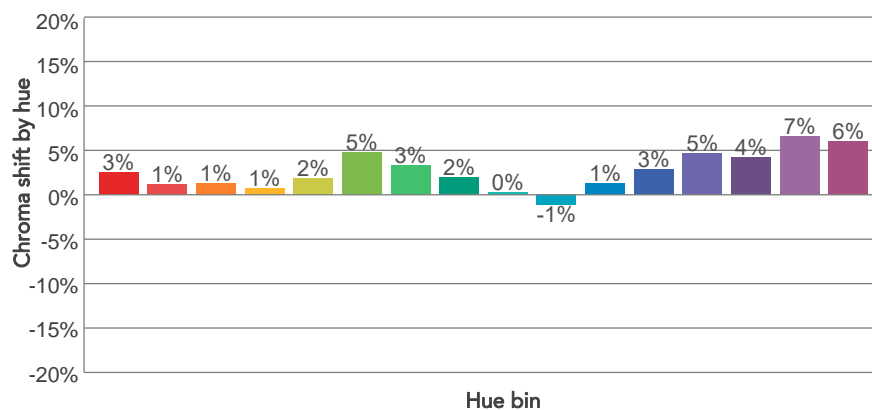
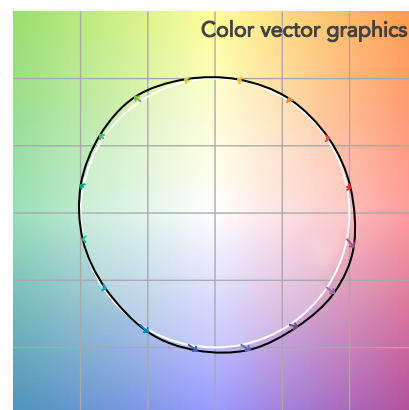
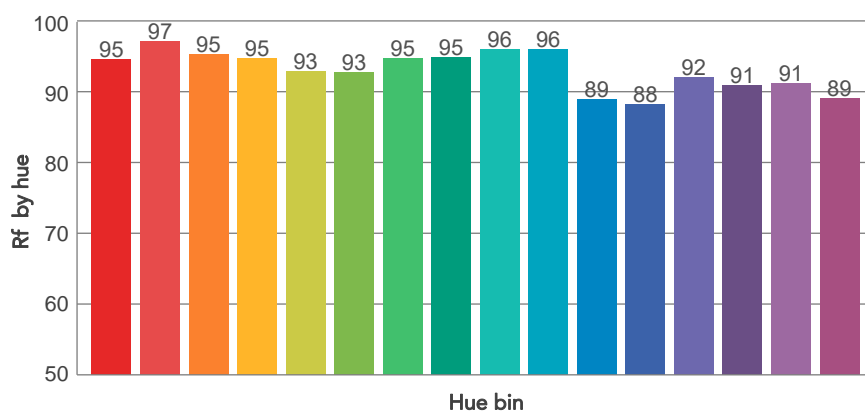
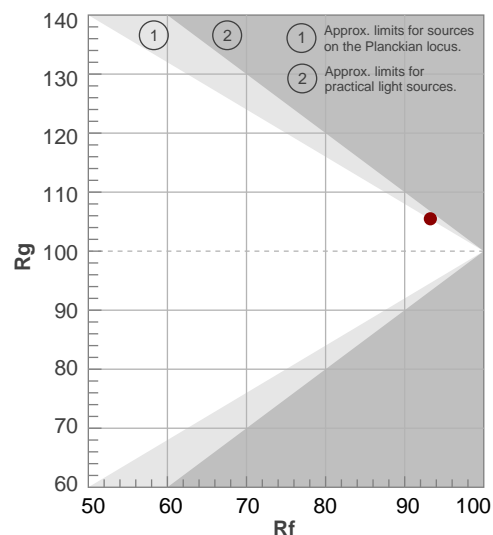
Rf 93,2

Fidelity index Rf

Rg 105,5

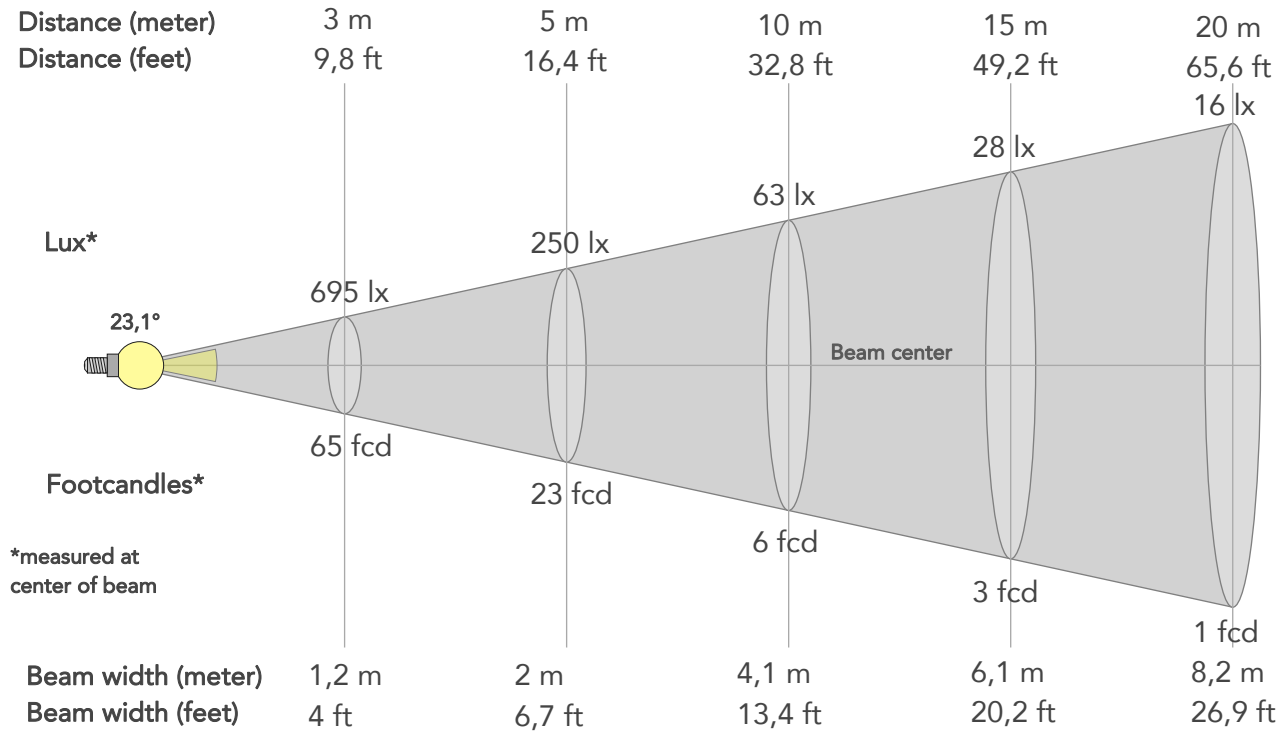
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 95 | 3% | -1% |
| 2 | 97 | 1% | -1% |
| 3 | 95 | 1% | 2% |
| 4 | 95 | 1% | 2% |
| 5 | 93 | 2% | 3% |
| 6 | 93 | 5% | 1% |
| 7 | 95 | 3% | -1% |
| 8 | 95 | 2% | -1% |
| 9 | 96 | 0% | 0% |
| 10 | 96 | -1% | 1% |
| 11 | 89 | 1% | 8% |
| 12 | 88 | 3% | 7% |
| 13 | 92 | 5% | 5% |
| 14 | 91 | 4% | 4% |
| 15 | 91 | 7% | 0% |
| 16 | 89 | 6% | -4% |



BEAM DETAILS

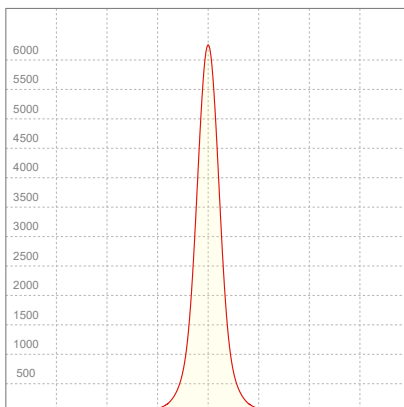
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 23,1° | 46,9° | 72,6° | 97,3% | 93,0% |



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 | 6251lx | 1563lx | 695lx | 391lx | 250lx | 111lx | 63lx | 28lx | 16lx | 10lx | 7lx | 4lx | 3lx |
| Footcand. | 581fcd | 145fcd | 65fcd | 36fcd | 23fcd | 10fcd | 6fcd | 3fcd | 1fcd | 1fcd | 1fcd | 0fcd | 0fcd |
| Beam wid. | 0,4m | 0,8m | 1,2m | 1,6m | 2m | 3,1m | 4,1m | 6,1m | 8,2m | 10,2m | 12,3m | 16,4m | 20,5m |
| Beam wid. | 1,4ft | 2,7ft | 4ft | 5,4ft | 6,7ft | 10,1ft | 13,4ft | 20,2ft | 26,9ft | 33,6ft | 40,3ft | 53,7ft | 67,2ft |

LINEAR DISTRIBUTION DIAGRAM

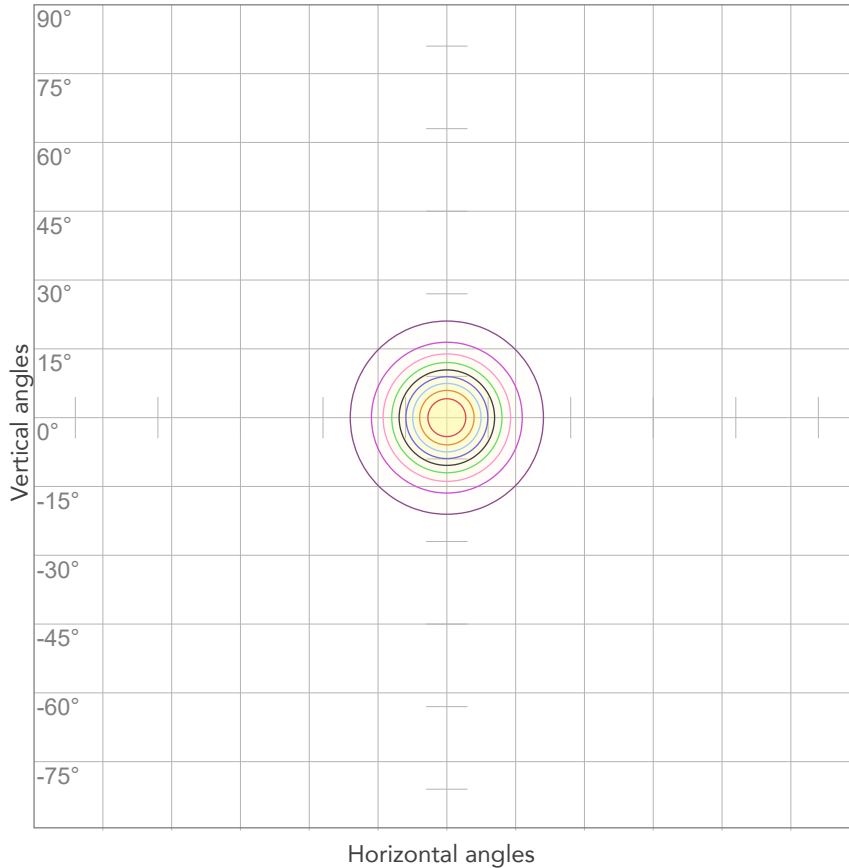


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Efficiency |
|---------------|---------------|-------------|----------|------------|
| 227V | 0,145A | 31,5W | 0,96 | 49lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



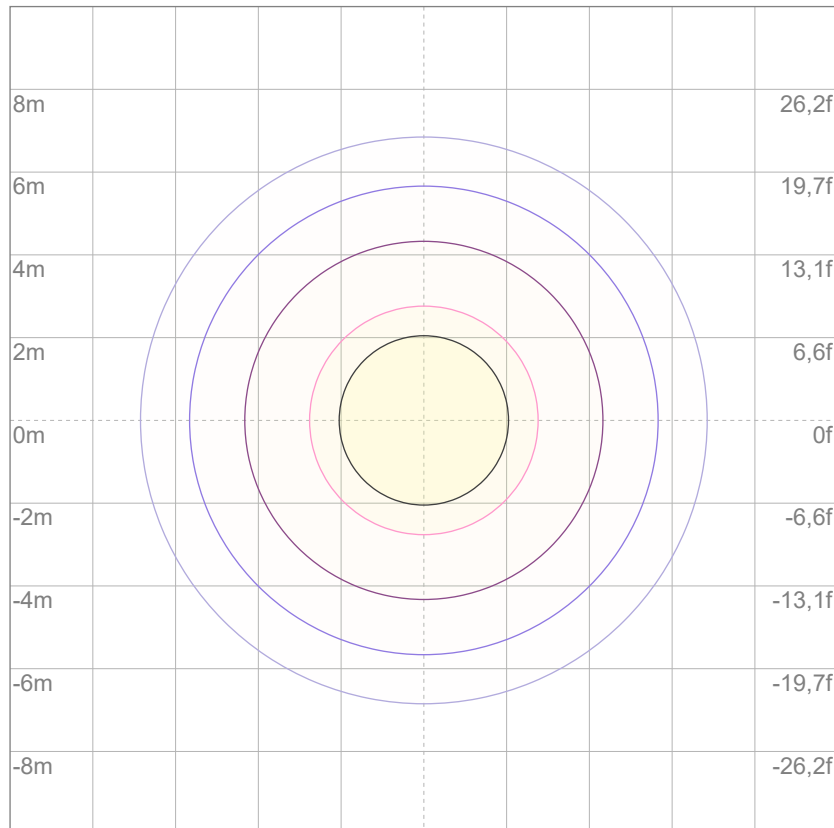
| | |
|-----|---------|
| 10% | 625 cd |
| 20% | 1250 cd |
| 30% | 1875 cd |
| 40% | 2500 cd |
| 50% | 3125 cd |
| 60% | 3750 cd |
| 70% | 4375 cd |
| 80% | 5001 cd |

Conditions:

Number of c-planes: 2

Candela at center: 6251 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 1,88 lx |
| 5% | 3,13 lx |
| 10% | 6,25 lx |
| 30% | 18,8 lx |
| 50% | 31,3 lx |

Conditions:

Number of c-planes: 2

Lux at center: 62,5 lx

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



Total lumen output:

1446 lm

Peak candela output:

1791 cd

Light quality:

CRI: 93,7

Color temperature:

4258 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 40° Filter

Target:

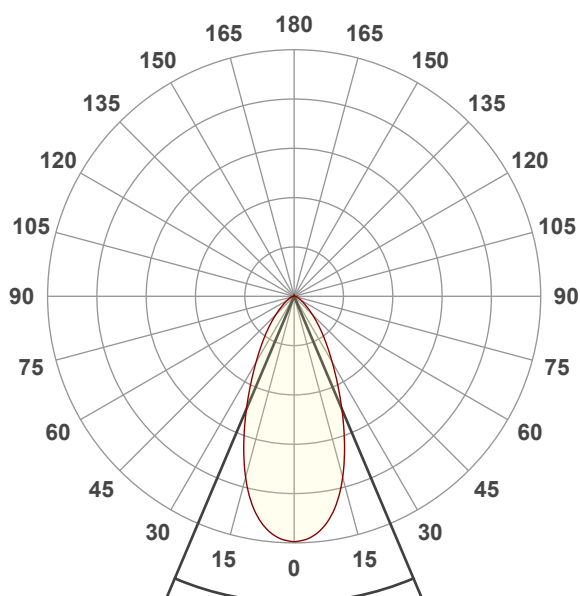
Full On

Operator:

Salvatore Giglio

Date and time:

19/02/2024 17:46:55

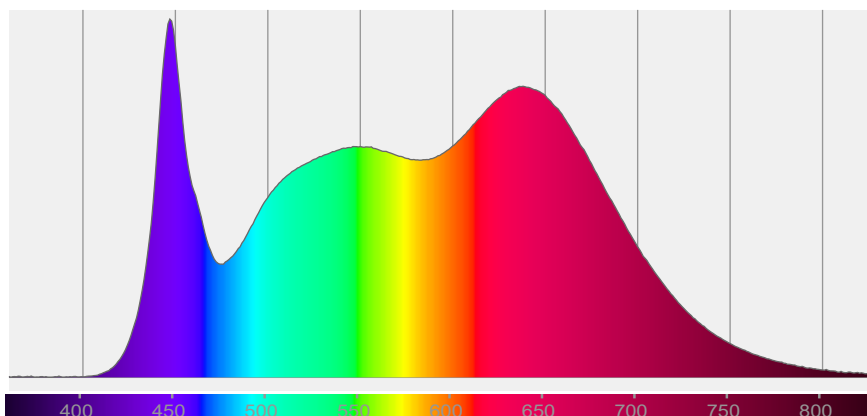


Beam angle 50%: 45,9°

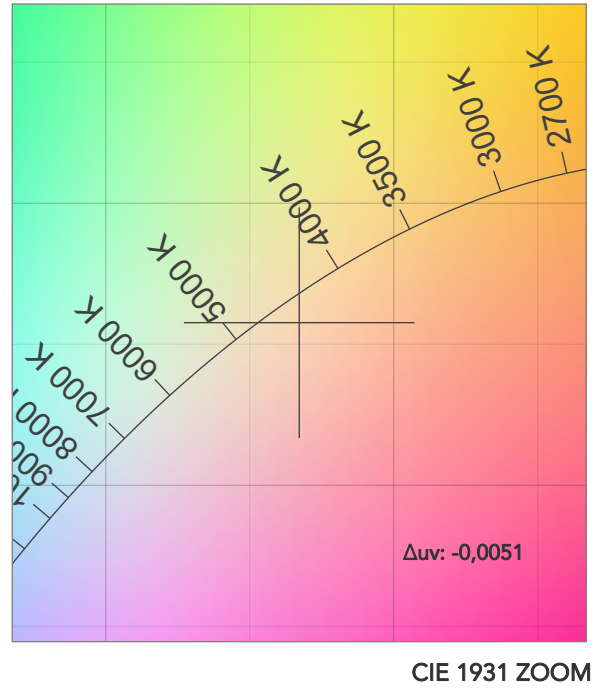
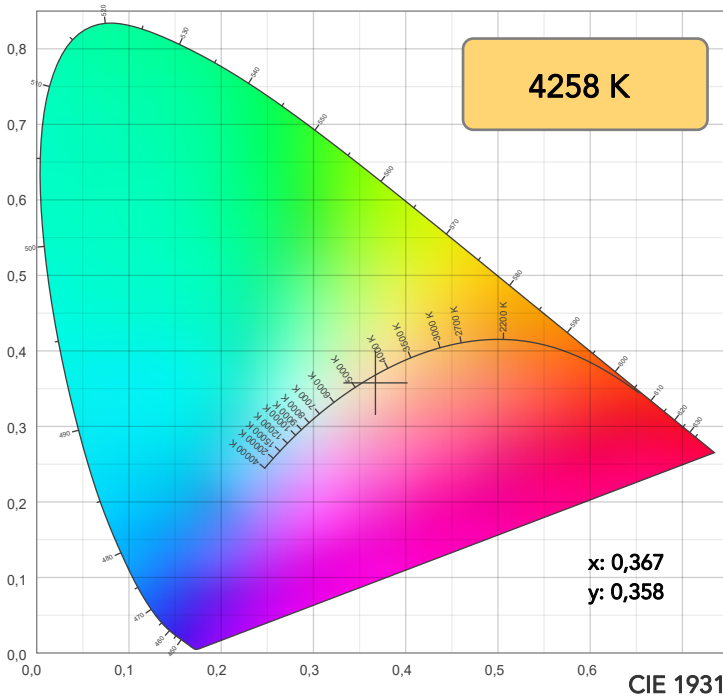
Field angle 10%: 91,1°

Cut off angle 2.5%: 128,2°

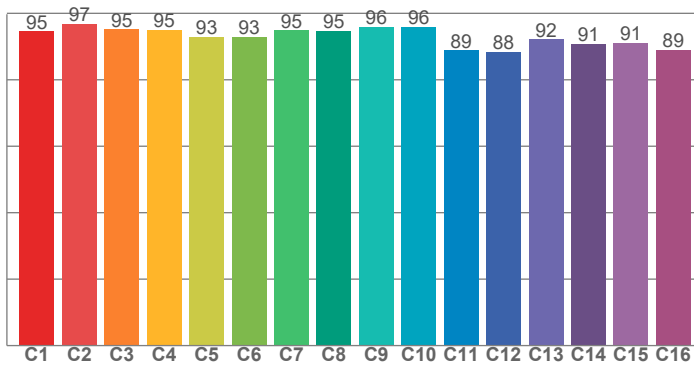
Spectra



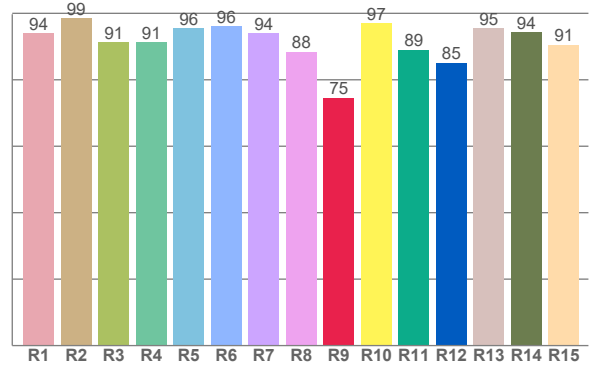
COLOR DETAILS



TM30: 93,2



CRI: 93,7 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,0 | 98,5 | 91,3 | 91,2 | 95,6 | 96,2 | 94,1 | 88,5 | 74,6 | 97,0 | 89,1 | 85,1 | 95,4 | 94,4 | 90,5 |

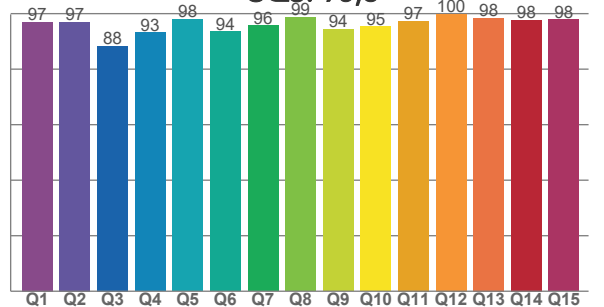
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,5 | 96,8 | 95,1 | 95,0 | 92,9 | 92,8 | 94,8 | 94,7 | 95,9 | 96,0 | 88,9 | 88,4 | 92,1 | 90,7 | 91,0 | 89,0 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 97,1 | 97,0 | 88,4 | 93,2 | 98,0 | 93,5 | 95,7 | 98,7 | 94,4 | 95,4 | 97,4 | 99,8 | 98,4 | 97,7 | 97,9 |

CQS: 95,3



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 |
| 4258 K | 93,7 | 74,6 | 93,2 | 105,6 | 95,3 | 97 | 0,367 | 0,358 | -0,0051 |

TM30 DETAILS

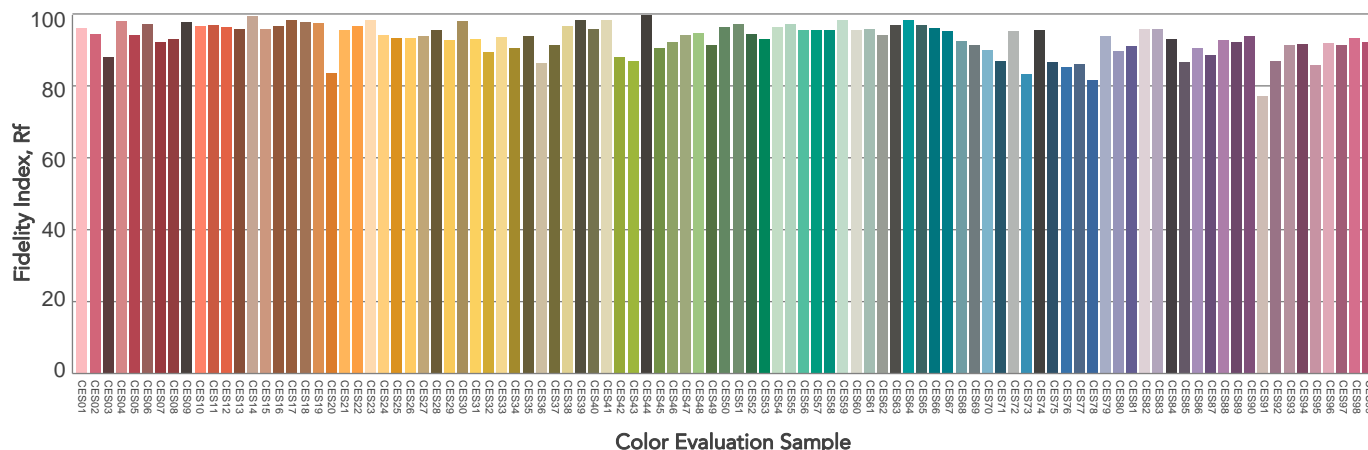
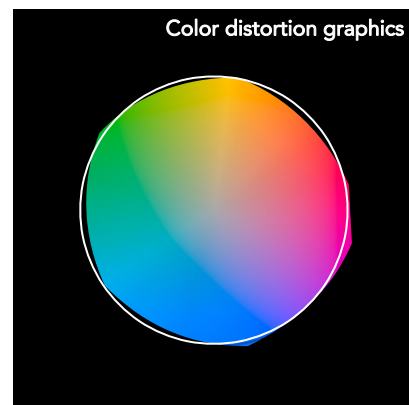
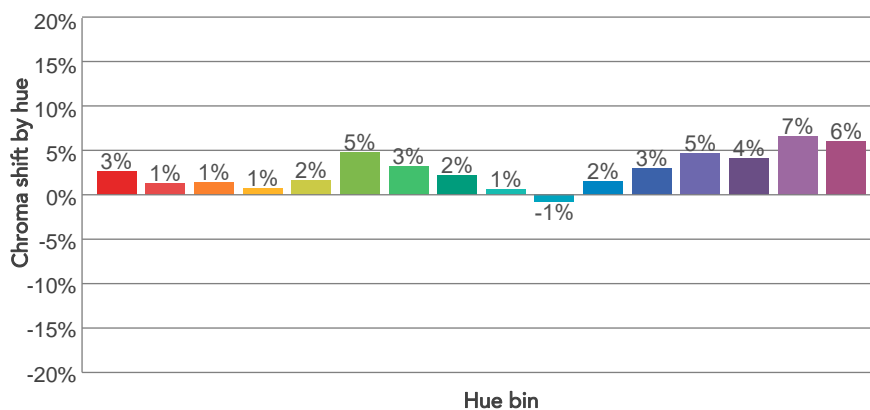
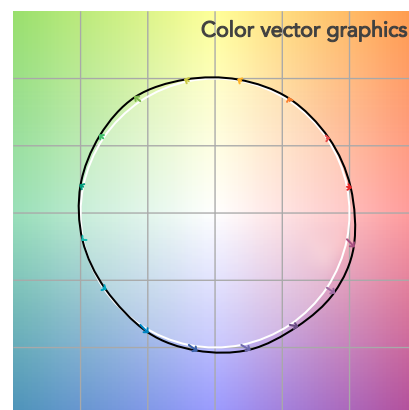
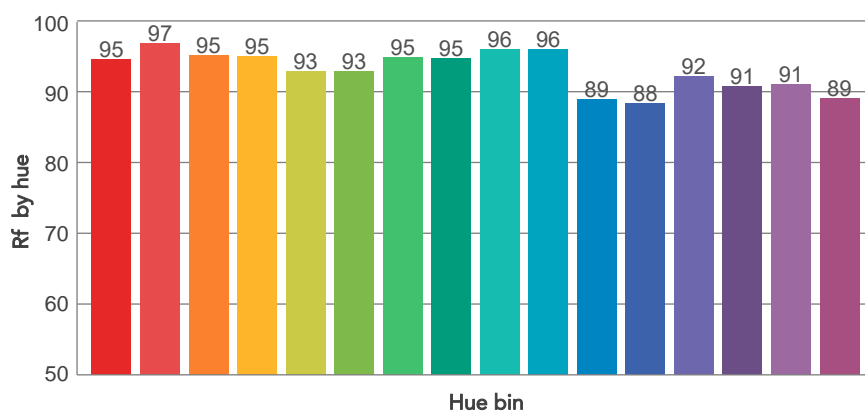
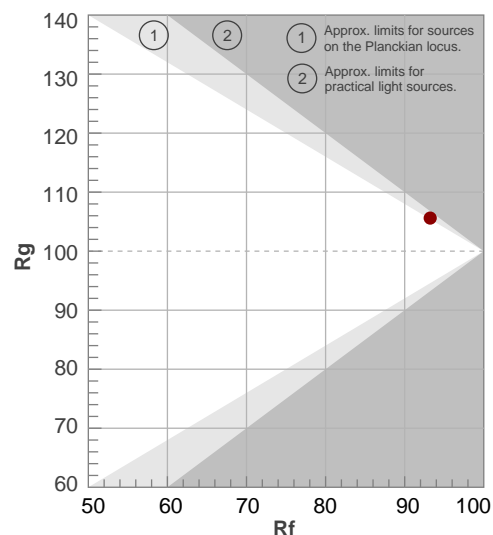
Rf 93,2

Fidelity index Rf

Rg 105,6

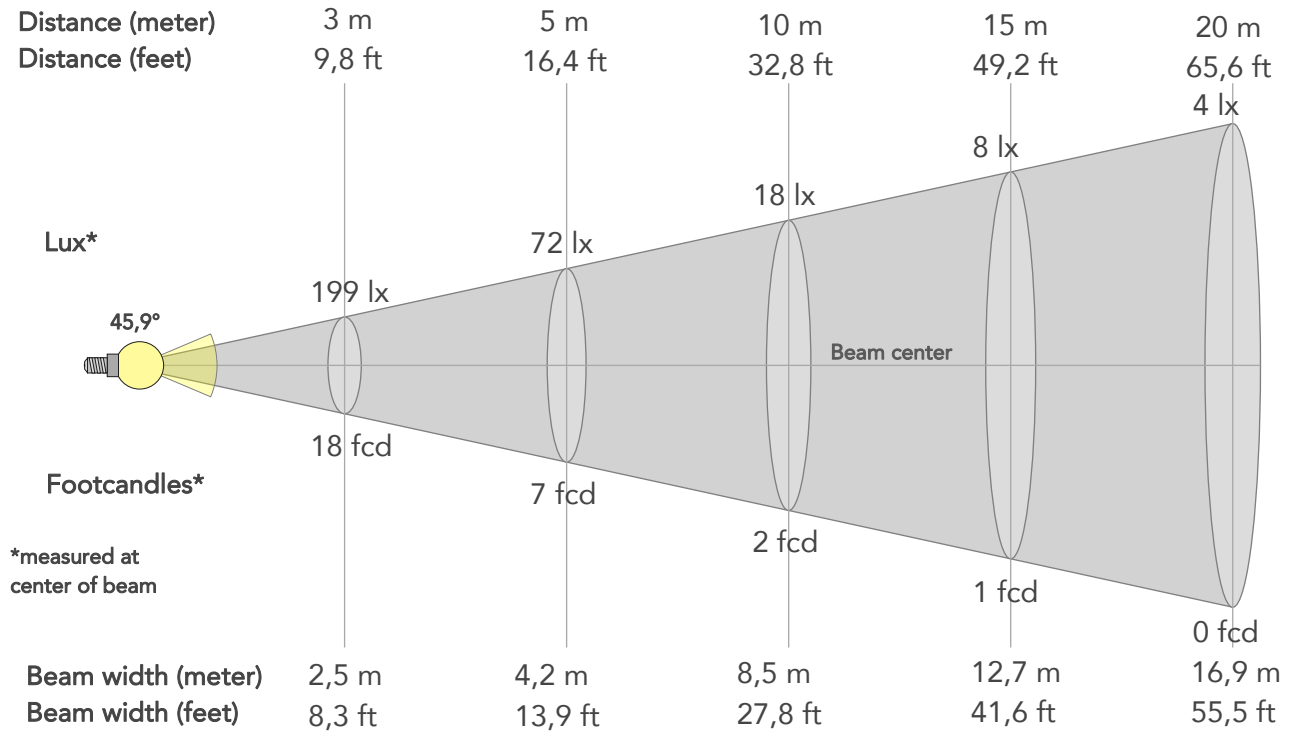
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 95 | 3% | -1% |
| 2 | 97 | 1% | -1% |
| 3 | 95 | 1% | 2% |
| 4 | 95 | 1% | 2% |
| 5 | 93 | 2% | 2% |
| 6 | 93 | 5% | 1% |
| 7 | 95 | 3% | 0% |
| 8 | 95 | 2% | -1% |
| 9 | 96 | 1% | 0% |
| 10 | 96 | -1% | 2% |
| 11 | 89 | 2% | 8% |
| 12 | 88 | 3% | 6% |
| 13 | 92 | 5% | 5% |
| 14 | 91 | 4% | 4% |
| 15 | 91 | 7% | 0% |
| 16 | 89 | 6% | -4% |



BEAM DETAILS

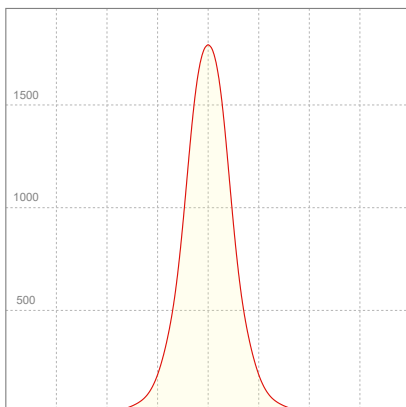
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 45,9° | 91,1° | 128,2° | 94,9% | 85,3% |



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 | 1791lx | 448lx | 199lx | 112lx | 72lx | 32lx | 18lx | 8lx | 4lx | 3lx | 2lx | 1lx | 1lx |
| Footcand. | 166fcd | 42fcd | 18fcd | 10fcd | 7fcd | 3fcd | 2fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,8m | 1,7m | 2,5m | 3,4m | 4,2m | 6,3m | 8,5m | 12,7m | 16,9m | 21,2m | 25,4m | 33,8m | 42,3m |
| Beam wid. | 2,8ft | 5,6ft | 8,3ft | 11,1ft | 13,9ft | 20,8ft | 27,8ft | 41,6ft | 55,5ft | 69,4ft | 83,3ft | 111ft | 138,8ft |

LINEAR DISTRIBUTION DIAGRAM

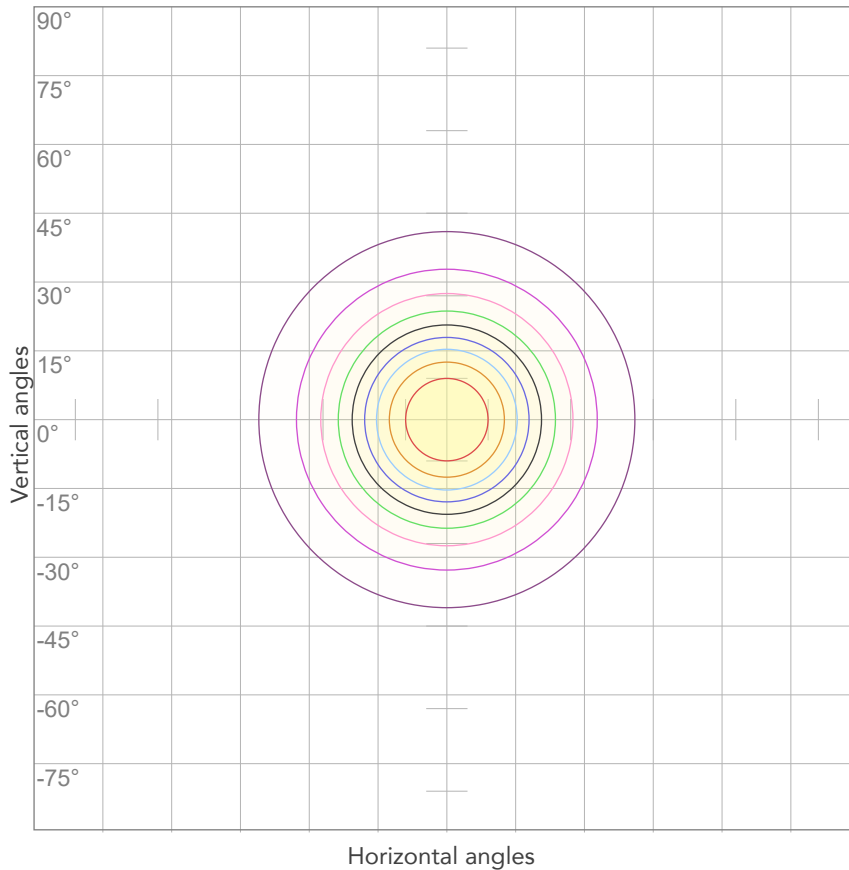


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Efficiency |
|---------------|---------------|-------------|----------|------------|
| 226V | 0,145A | 31,1W | 0,95 | 46lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



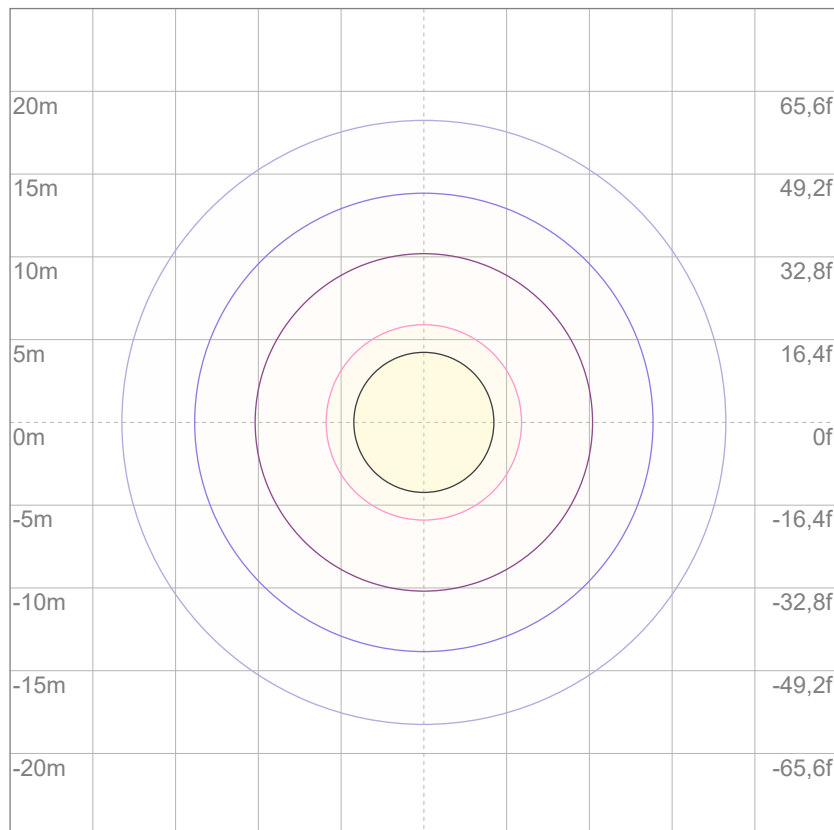
| | |
|-----|---------|
| 10% | 179 cd |
| 20% | 358 cd |
| 30% | 537 cd |
| 40% | 716 cd |
| 50% | 895 cd |
| 60% | 1074 cd |
| 70% | 1253 cd |
| 80% | 1432 cd |

Conditions:

Number of c-planes: 2

Candela at center: 1791 cd

ISO LUX DIAGRAM



| | |
|-----|----------|
| 3% | 0,537 lx |
| 5% | 0,895 lx |
| 10% | 1,79 lx |
| 30% | 5,37 lx |
| 50% | 8,95 lx |

Conditions:

Number of c-planes: 2

Lux at center: 17,9 lx

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



Total lumen output:

1483 lm

Peak candela output:

1353 cd

Light quality:

CRI: 93,9

Color temperature:

4296 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 60° Filter

Target:

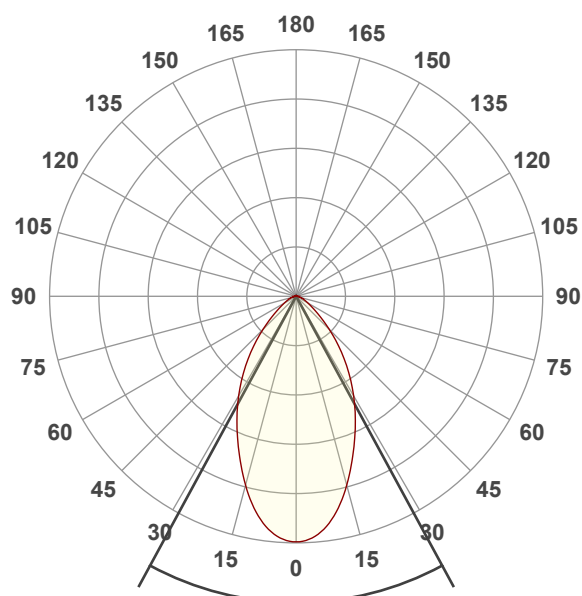
Full On

Operator:

Salvatore Giglio

Date and time:

20/02/2024 09:13:06

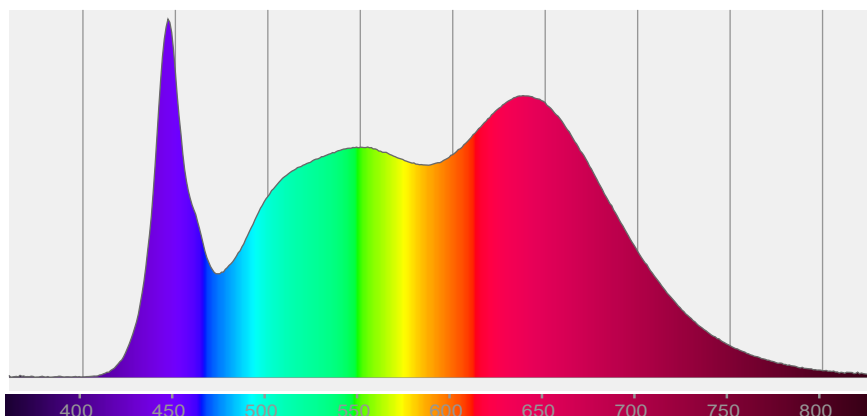


Beam angle 50%: 56,9°

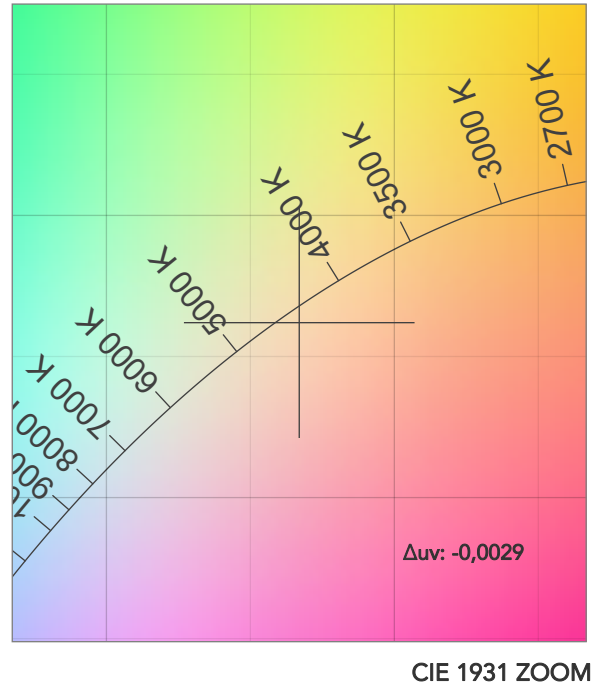
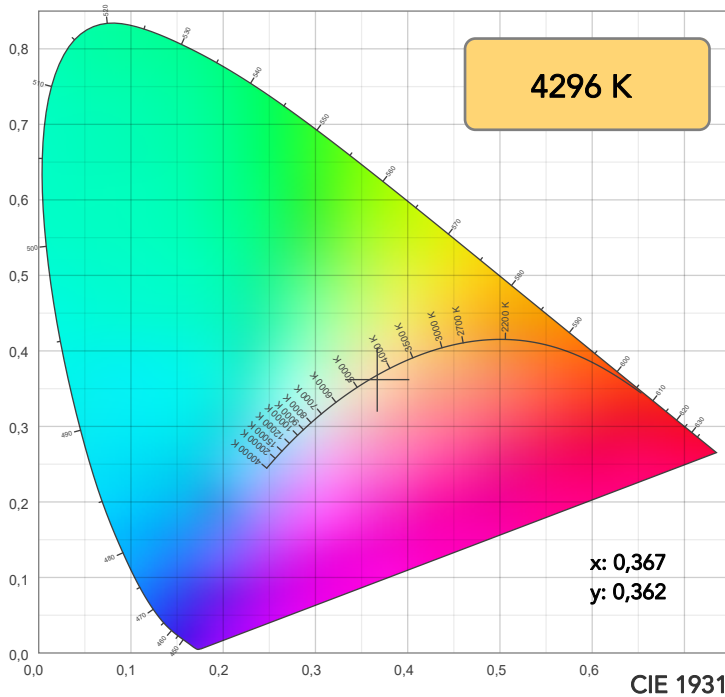
Field angle 10%: 105,4°

Cut off angle 2.5%: 142,6°

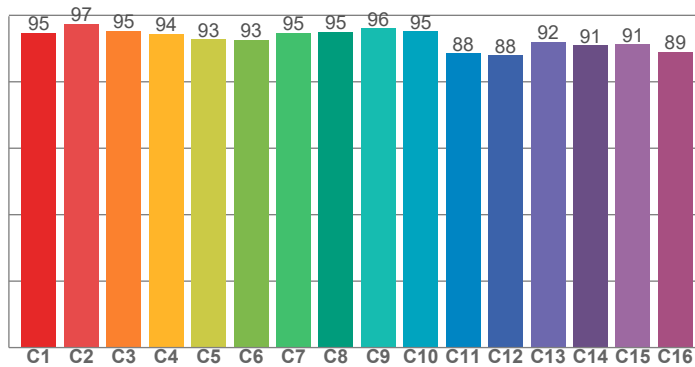
Spectra



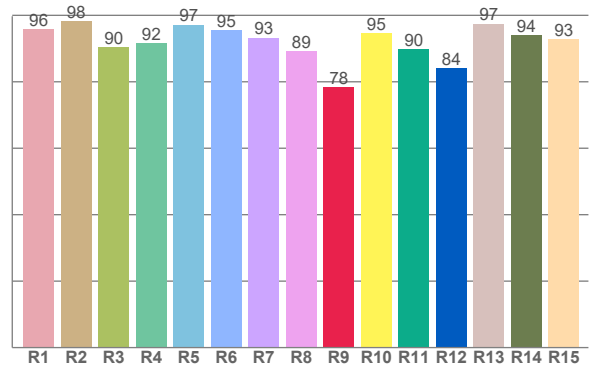
COLOR DETAILS



TM30: 93,2



CRI: 93,9 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,9 | 98,3 | 90,4 | 91,6 | 97,1 | 95,5 | 93,3 | 89,3 | 78,3 | 94,7 | 89,8 | 84,1 | 97,4 | 94,0 | 92,8 |

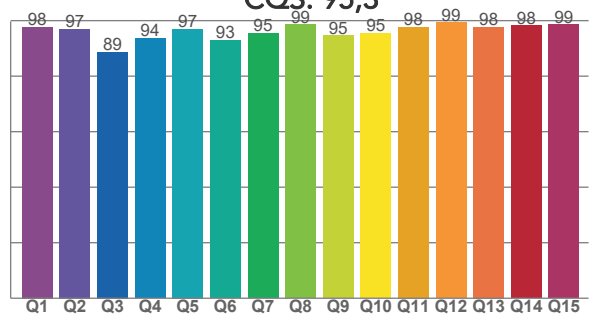
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,8 | 97,4 | 95,3 | 94,5 | 92,8 | 92,7 | 94,8 | 95,1 | 96,1 | 95,2 | 88,5 | 87,9 | 92,0 | 91,0 | 91,3 | 89,1 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 97,7 | 97,0 | 88,7 | 93,6 | 97,0 | 92,9 | 95,4 | 98,6 | 94,6 | 95,4 | 97,7 | 99,3 | 97,7 | 98,2 | 98,6 |

CQS: 95,3



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 |
| 4296 K | 93,9 | 78,3 | 93,2 | 105,3 | 95,3 | 97 | 0,367 | 0,362 | -0,0029 |

TM30 DETAILS

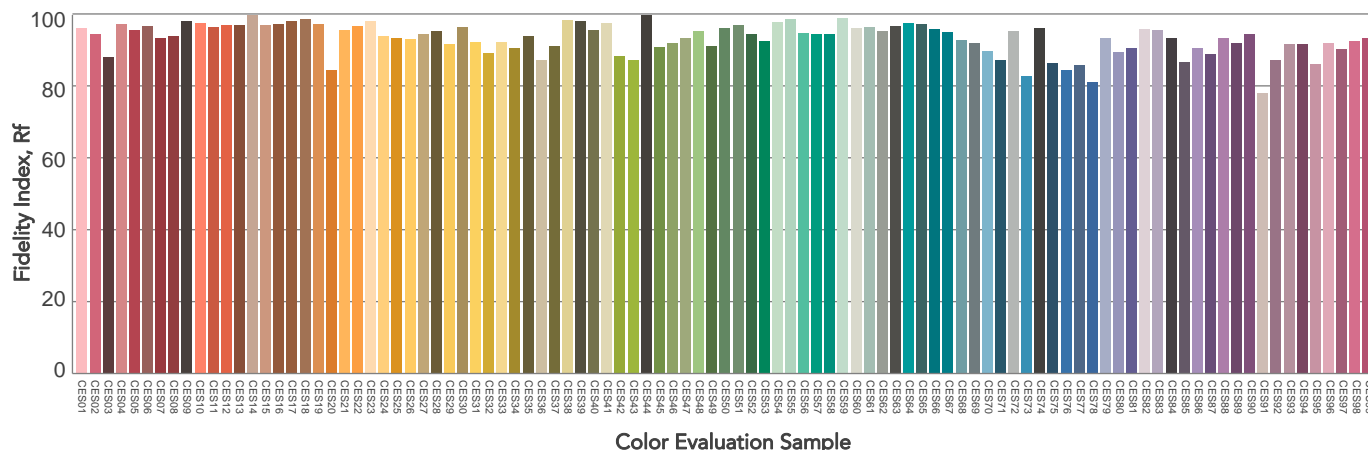
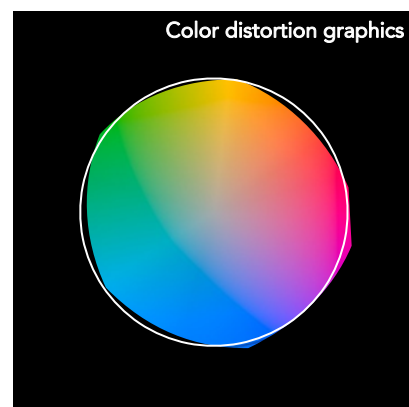
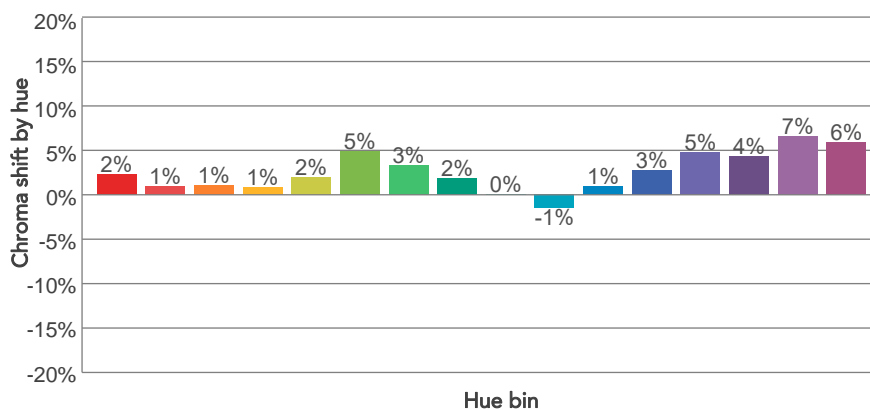
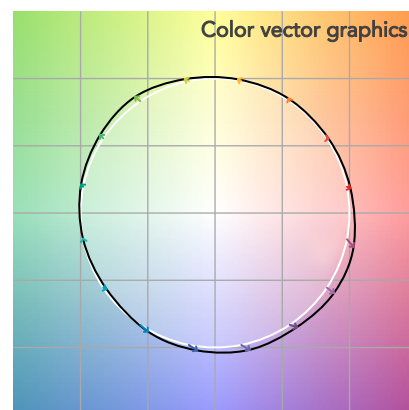
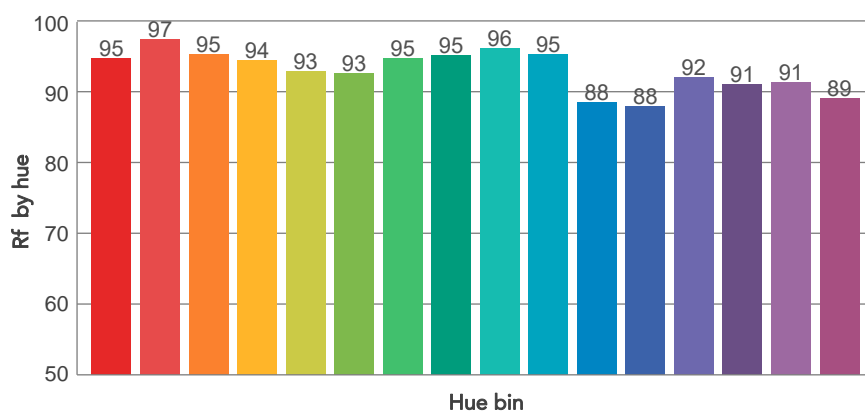
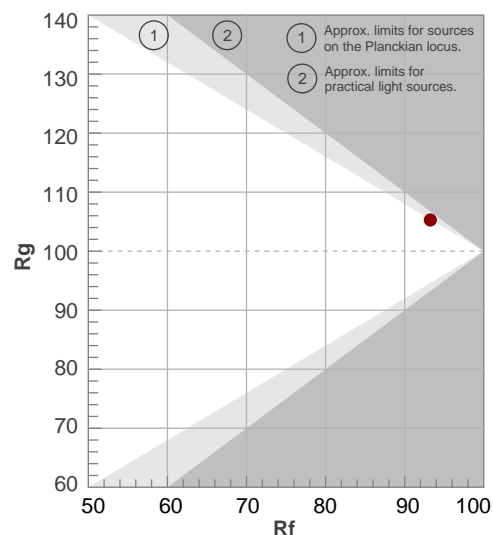
Rf 93,2

Fidelity index Rf

Rg 105,3

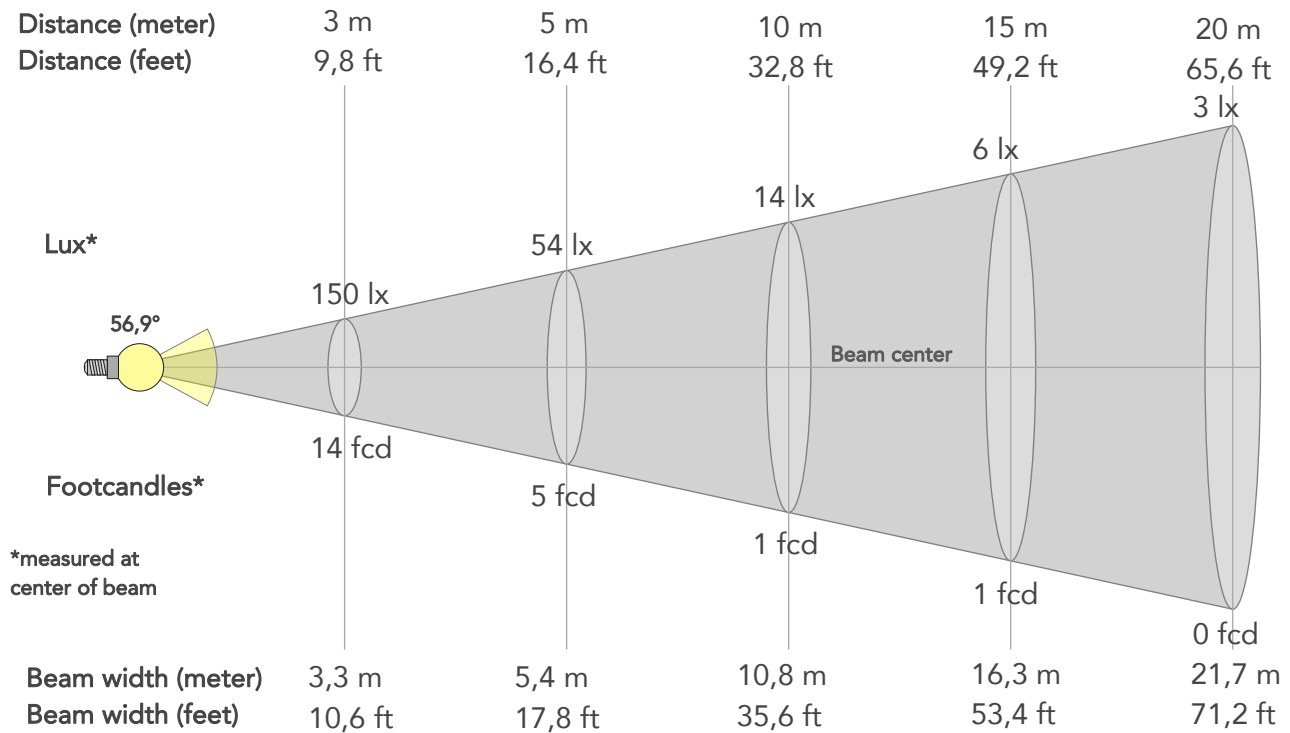
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 95 | 2% | -2% |
| 2 | 97 | 1% | -1% |
| 3 | 95 | 1% | 2% |
| 4 | 94 | 1% | 3% |
| 5 | 93 | 2% | 3% |
| 6 | 93 | 5% | 1% |
| 7 | 95 | 3% | -1% |
| 8 | 95 | 2% | -1% |
| 9 | 96 | 0% | 0% |
| 10 | 95 | -1% | 2% |
| 11 | 88 | 1% | 7% |
| 12 | 88 | 3% | 7% |
| 13 | 92 | 5% | 5% |
| 14 | 91 | 4% | 4% |
| 15 | 91 | 7% | 0% |
| 16 | 89 | 6% | -5% |



BEAM DETAILS

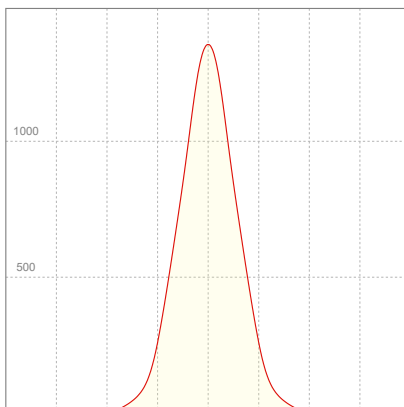
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 56,9° | 105,4° | 142,6° | 94,1% | 81,4% |



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 | 1353lx | 338lx | 150lx | 85lx | 54lx | 24lx | 14lx | 6lx | 3lx | 2lx | 2lx | 1lx | 1lx |
| Footcand. | 126fcd | 31fcd | 14fcd | 8fcd | 5fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 1,1m | 2,2m | 3,3m | 4,3m | 5,4m | 8,1m | 10,8m | 16,3m | 21,7m | 27,1m | 32,5m | 43,4m | 54,2m |
| Beam wid. | 3,6ft | 7,2ft | 10,6ft | 14,2ft | 17,8ft | 26,7ft | 35,6ft | 53,4ft | 71,2ft | 88,9ft | 106,7ft | 142,3ft | 177,9ft |

LINEAR DISTRIBUTION DIAGRAM

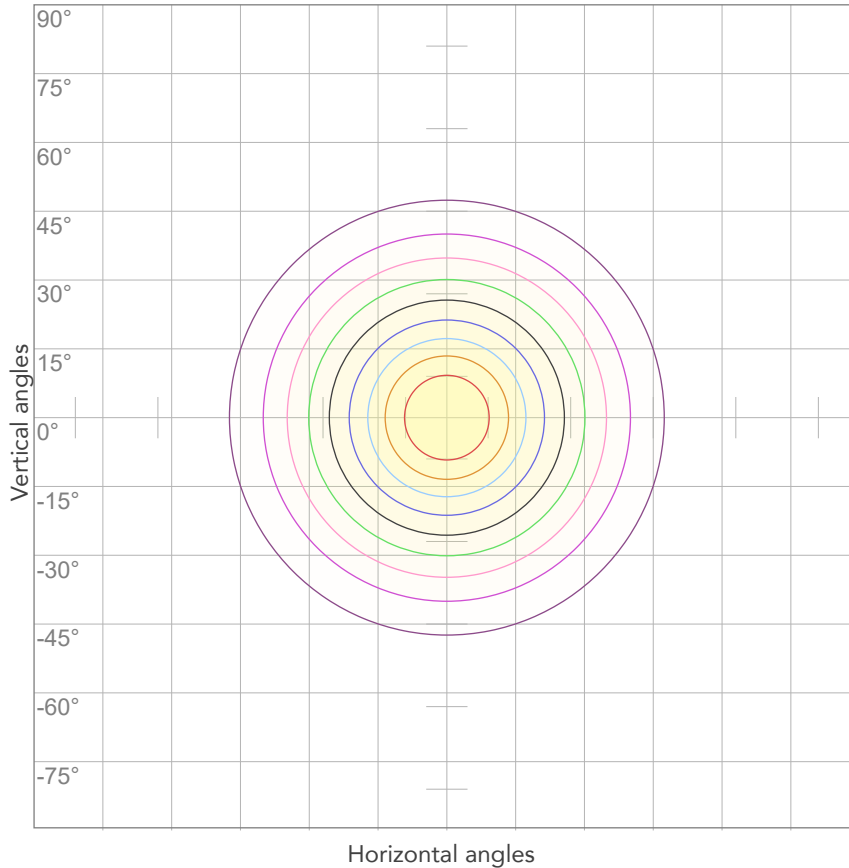


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Effeciency |
|---------------|---------------|-------------|----------|------------|
| 224V | 0,150A | 32,0W | 0,95 | 46lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



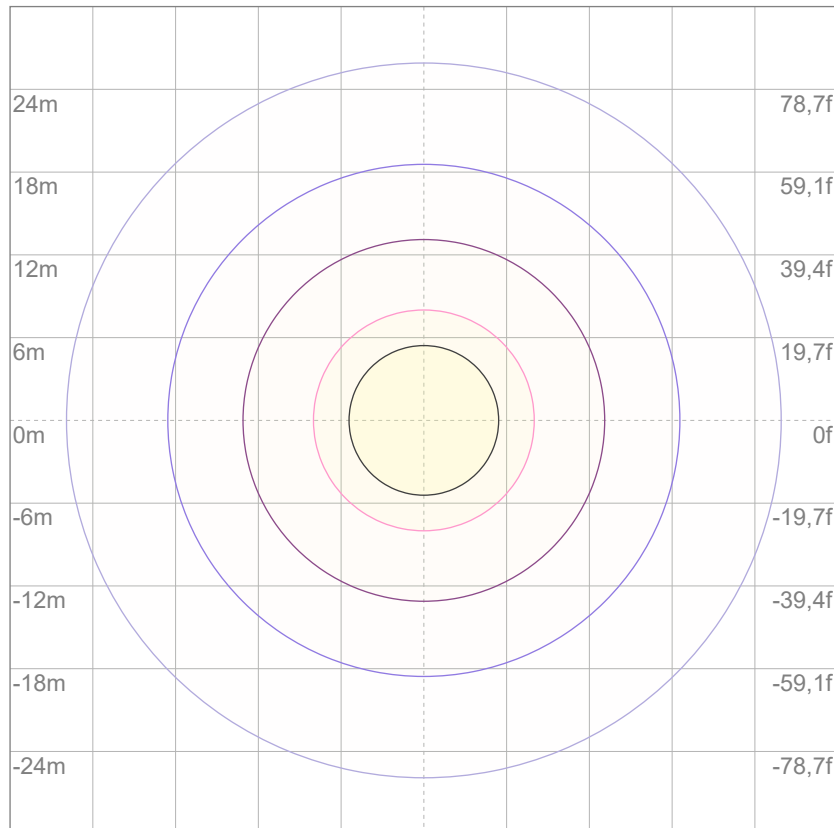
| | |
|-----|---------|
| 10% | 135 cd |
| 20% | 271 cd |
| 30% | 406 cd |
| 40% | 541 cd |
| 50% | 677 cd |
| 60% | 812 cd |
| 70% | 947 cd |
| 80% | 1083 cd |

Conditions:

Number of c-planes: 2

Candela at center: 1353 cd

ISO LUX DIAGRAM



| | |
|-----|----------|
| 3% | 0,406 lx |
| 5% | 0,677 lx |
| 10% | 1,35 lx |
| 30% | 4,06 lx |
| 50% | 6,77 lx |

Conditions:

Number of c-planes: 2

Lux at center: 13,5 lx

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



Total lumen output:

2245 lm

Peak candela output:

4576 cd

Light quality:

CRI: 93,8

Color temperature:

4230 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 10°x 60° Filter

Target:

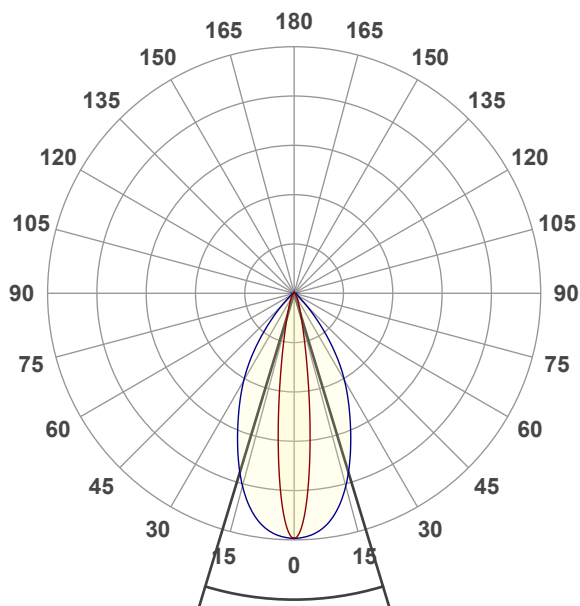
Full On

Operator:

Salvatore Giglio

Date and time:

20/02/2024 11:15:09

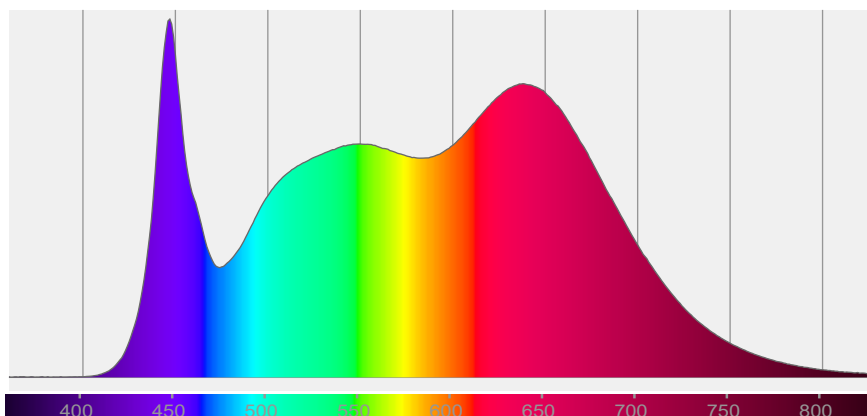


Beam angle 50%: 33,7°

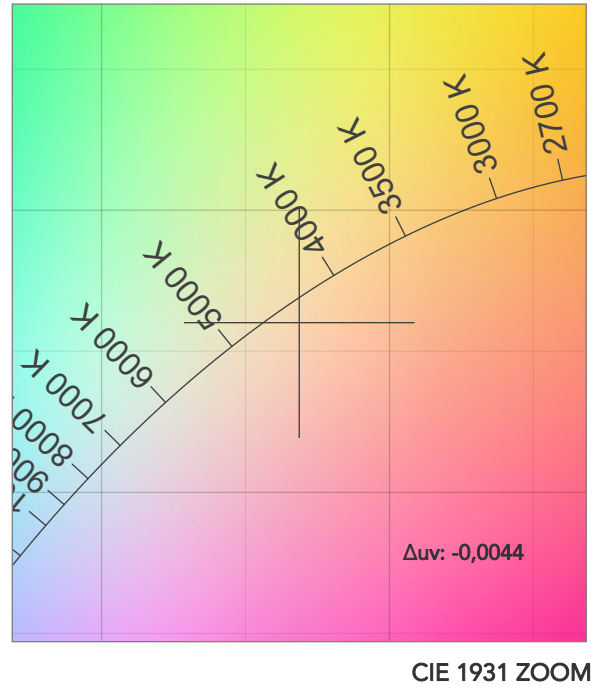
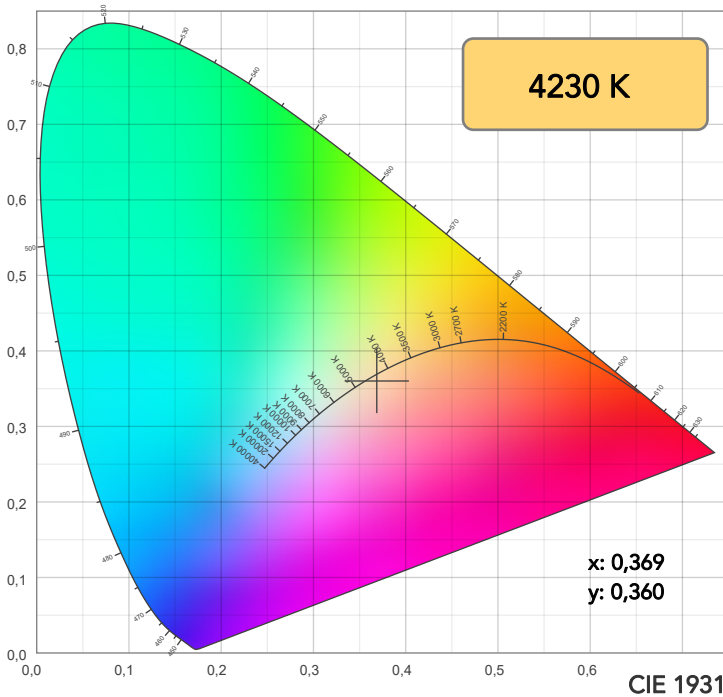
Field angle 10%: 59,8°

Cut off angle 2.5%: 84,2°

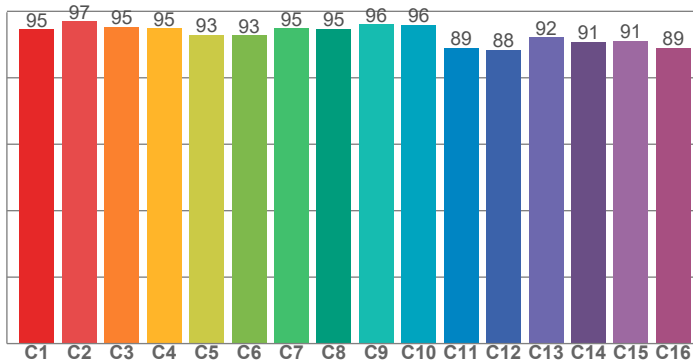
Spectra



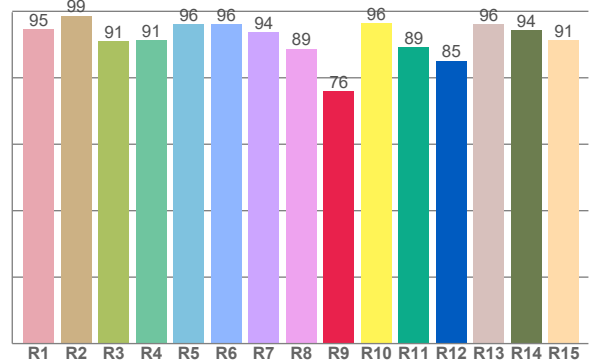
COLOR DETAILS



TM30: 93,3



CRI: 93,8 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,7 | 98,7 | 91,0 | 91,3 | 96,1 | 96,1 | 93,8 | 88,8 | 76,0 | 96,4 | 89,3 | 85,1 | 96,1 | 94,3 | 91,3 |

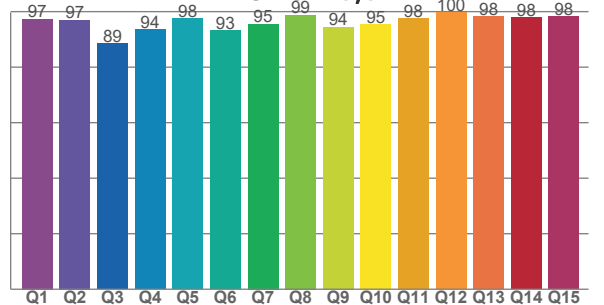
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,6 | 97,0 | 95,3 | 94,9 | 92,9 | 92,8 | 94,8 | 94,8 | 96,0 | 96,0 | 88,9 | 88,3 | 92,1 | 90,9 | 91,1 | 89,0 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 97,4 | 97,0 | 88,5 | 93,5 | 97,5 | 93,2 | 95,5 | 98,7 | 94,5 | 95,4 | 97,5 | 99,7 | 98,2 | 97,9 | 98,2 |

CQS: 95,3



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 |
| 4230 K | 93,8 | 76,0 | 93,3 | 105,5 | 95,3 | 97 | 0,369 | 0,360 | -0,0044 |

TM30 DETAILS

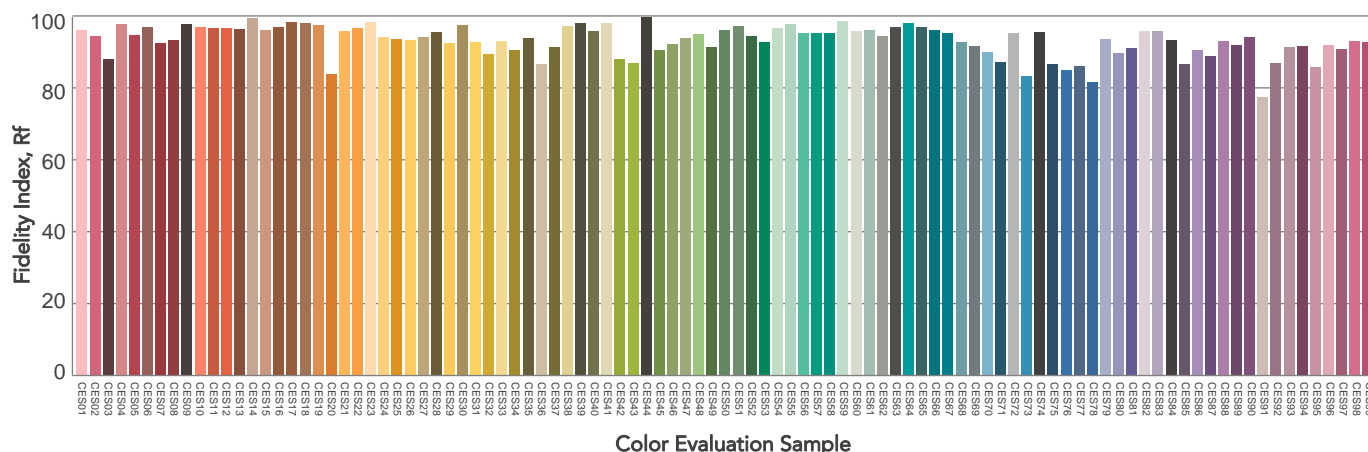
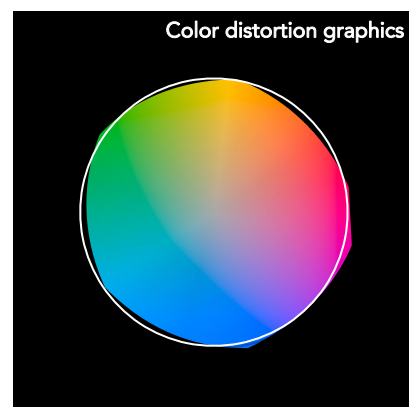
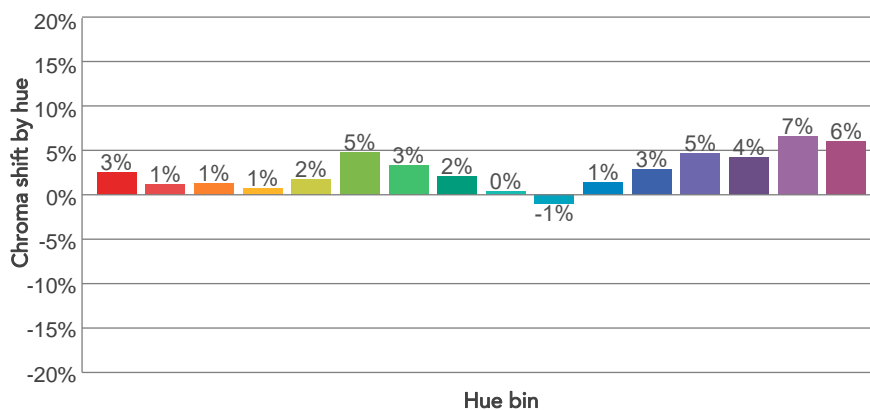
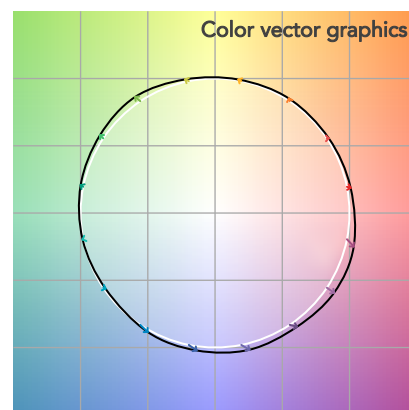
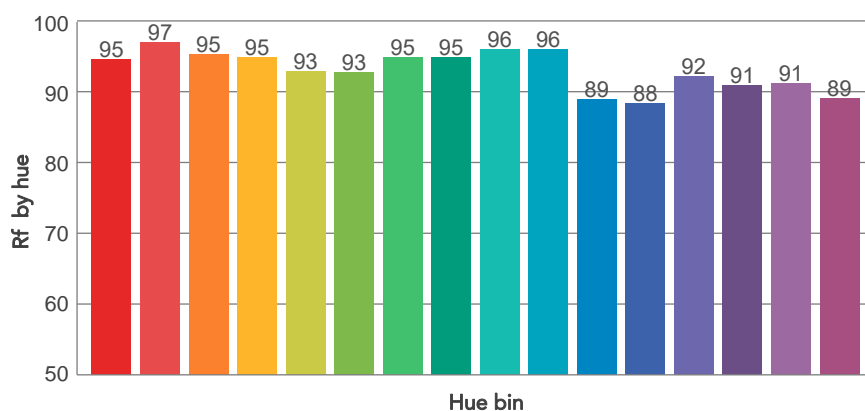
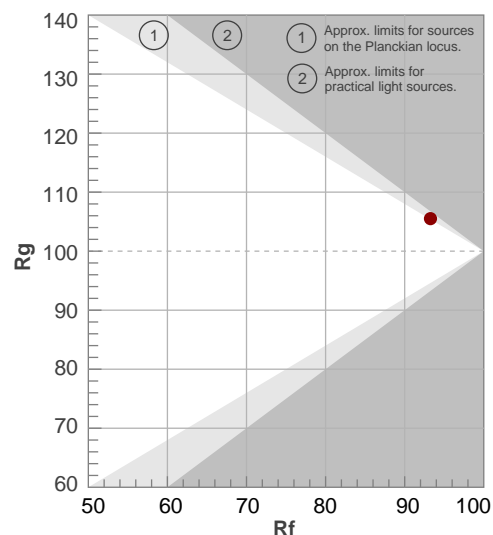
Rf 93,3

Fidelity index Rf

Rg 105,5

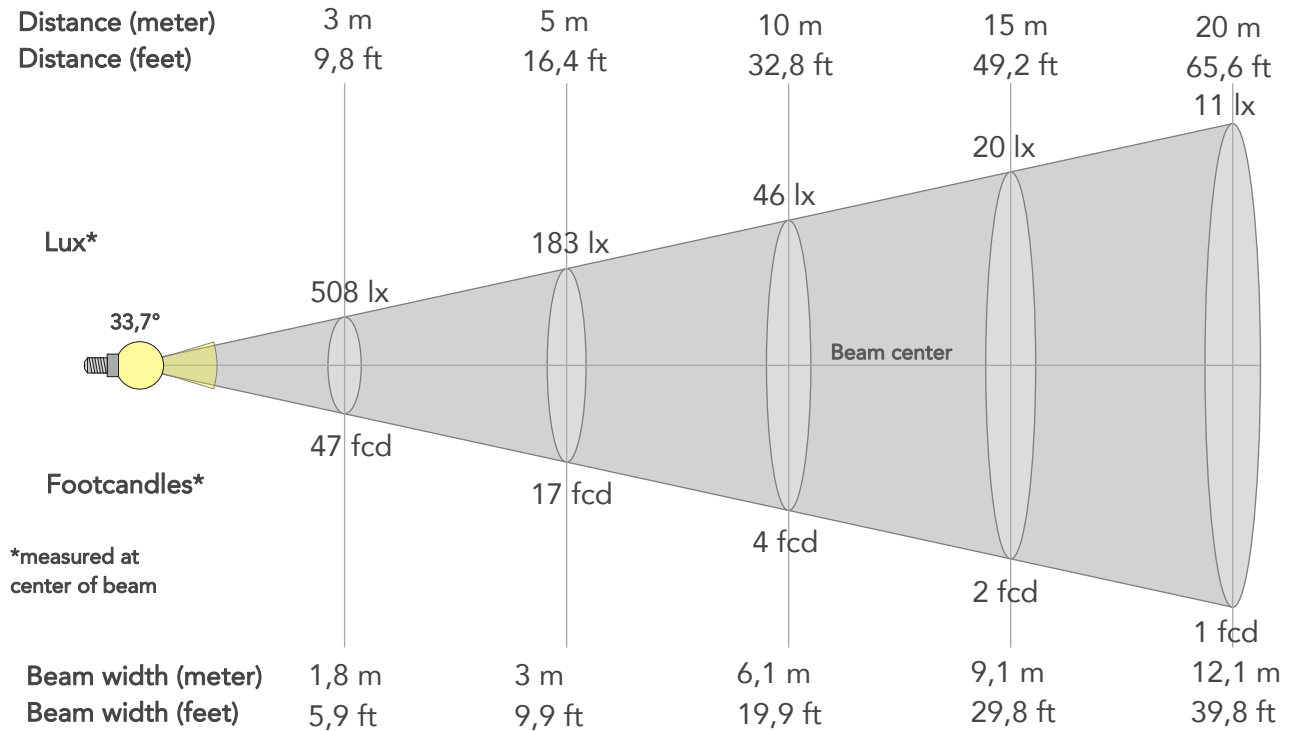
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 95 | 3% | -1% |
| 2 | 97 | 1% | -1% |
| 3 | 95 | 1% | 2% |
| 4 | 95 | 1% | 2% |
| 5 | 93 | 2% | 2% |
| 6 | 93 | 5% | 1% |
| 7 | 95 | 3% | -1% |
| 8 | 95 | 2% | -1% |
| 9 | 96 | 0% | 0% |
| 10 | 96 | -1% | 2% |
| 11 | 89 | 1% | 7% |
| 12 | 88 | 3% | 6% |
| 13 | 92 | 5% | 5% |
| 14 | 91 | 4% | 4% |
| 15 | 91 | 7% | 0% |
| 16 | 89 | 6% | -4% |



BEAM DETAILS

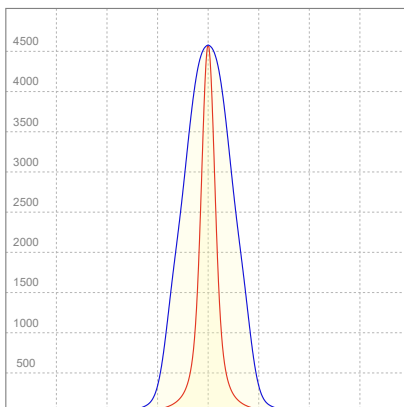
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 33,7° | 59,8° | 84,2° | 97,4% | 92,2% |



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 | 4569lx | 1142lx | 508lx | 286lx | 183lx | 81lx | 46lx | 20lx | 11lx | 7lx | 5lx | 3lx | 2lx |
| Footcand. | 424fcd | 106fcd | 47fcd | 27fcd | 17fcd | 8fcd | 4fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,6m | 1,2m | 1,8m | 2,4m | 3m | 4,5m | 6,1m | 9,1m | 12,1m | 15,2m | 18,2m | 24,3m | 30,3m |
| Beam wid. | 2ft | 4ft | 5,9ft | 7,9ft | 9,9ft | 14,9ft | 19,9ft | 29,8ft | 39,8ft | 49,7ft | 59,7ft | 79,6ft | 99,4ft |

LINEAR DISTRIBUTION DIAGRAM

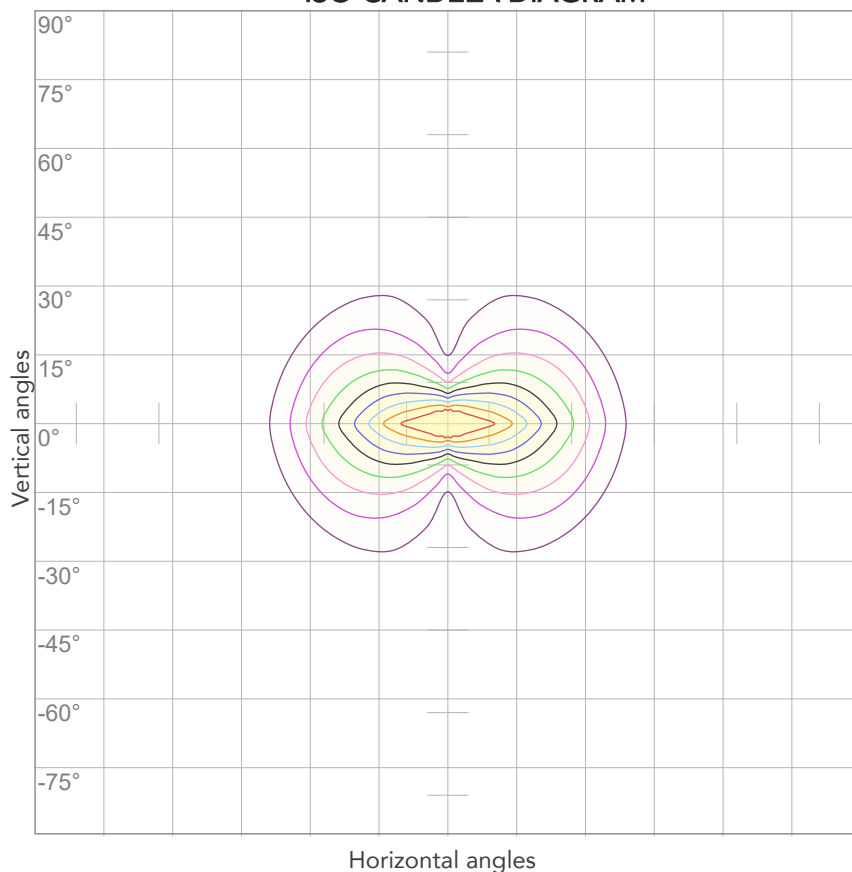


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Efficiency |
|---------------|---------------|-------------|----------|------------|
| 225V | 0,145A | 31,4W | 0,96 | 72lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



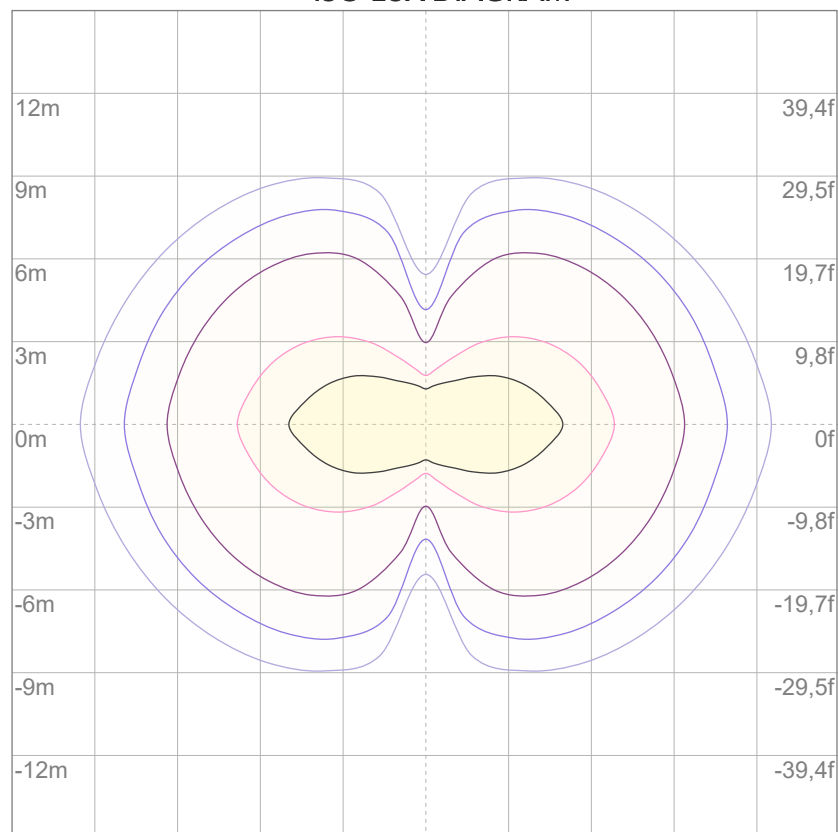
| | |
|-----|---------|
| 10% | 457 cd |
| 20% | 914 cd |
| 30% | 1371 cd |
| 40% | 1828 cd |
| 50% | 2285 cd |
| 60% | 2741 cd |
| 70% | 3198 cd |
| 80% | 3655 cd |

Conditions:

Number of c-planes: 4

Candela at center: 4569 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 1,37 lx |
| 5% | 2,28 lx |
| 10% | 4,57 lx |
| 30% | 13,7 lx |
| 50% | 22,8 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:

1400 lm

Peak candela output:

2304 cd

Light quality:

CRI: 93,8

Color temperature:

4270 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 30°x 60° Filter

Target:

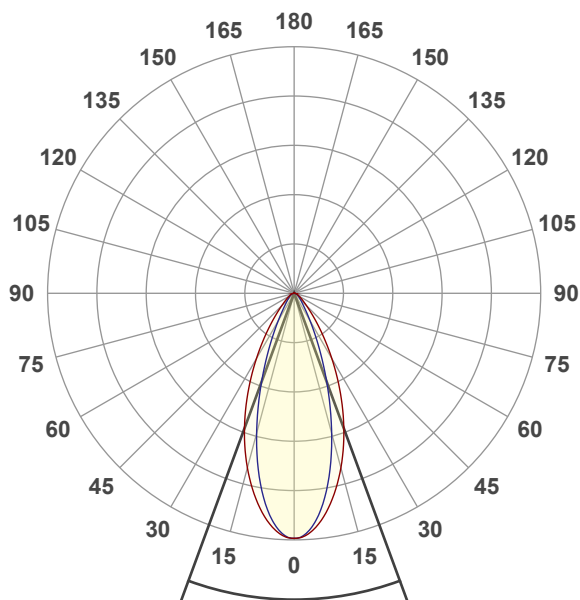
Full On

Operator:

Salvatore Giglio

Date and time:

20/02/2024 11:48:47

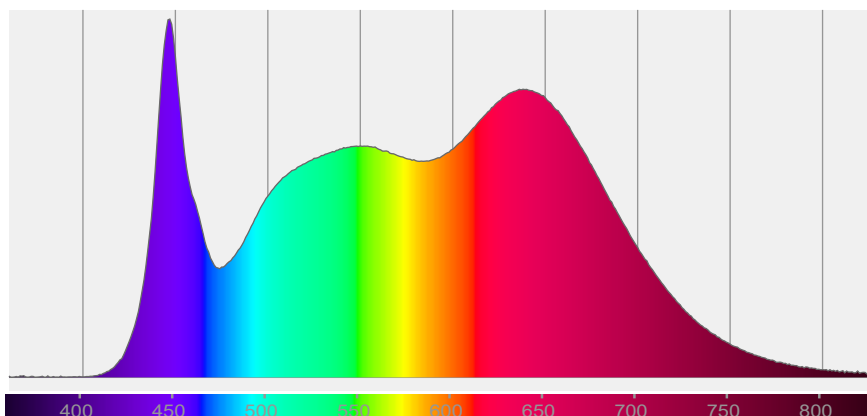


Beam angle 50%: 40,4°

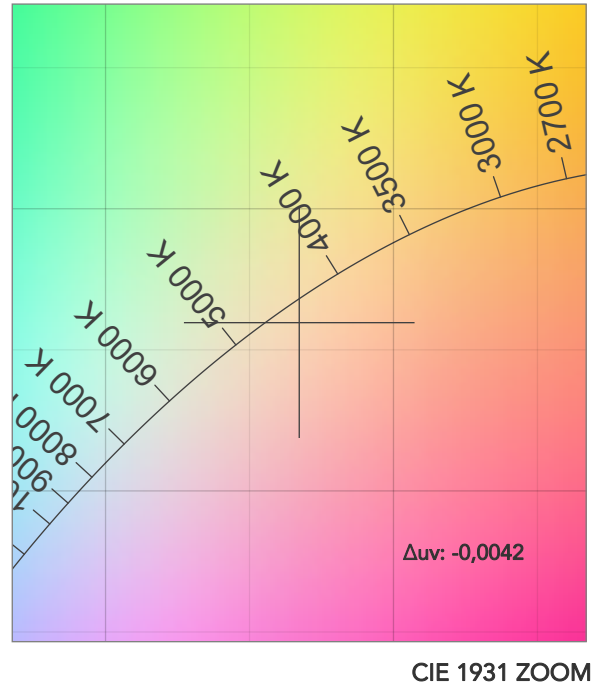
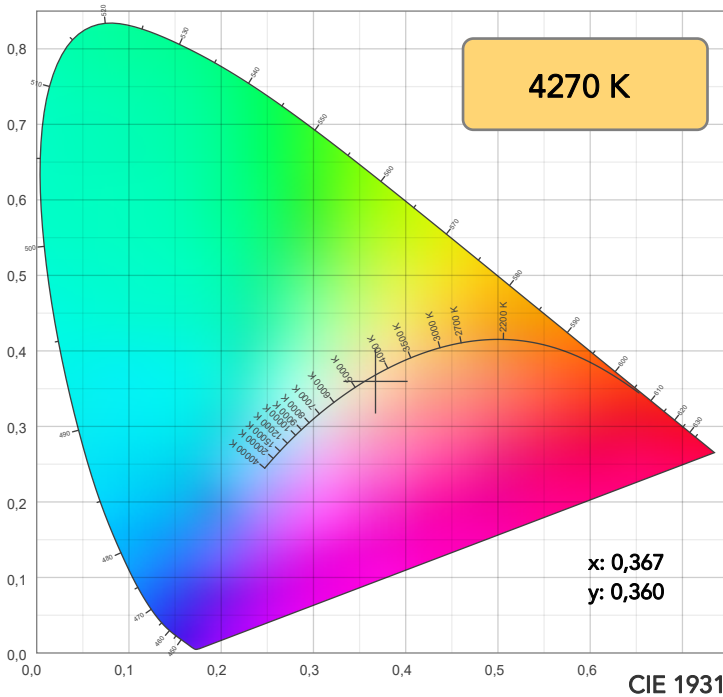
Field angle 10%: 74°

Cut off angle 2.5%: 111,6°

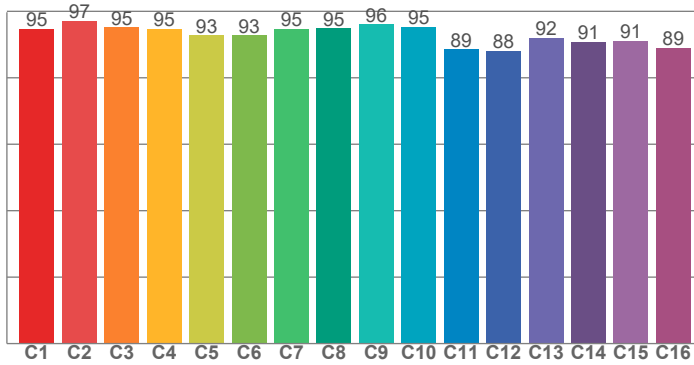
Spectra



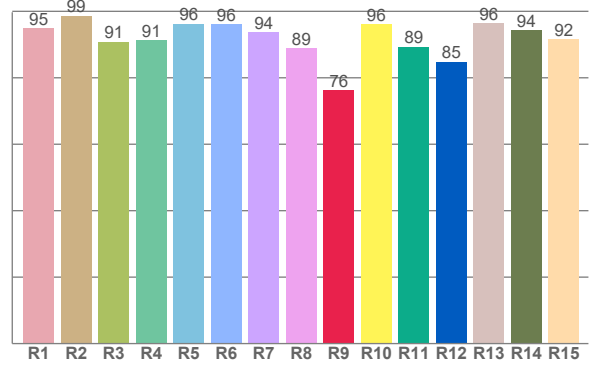
COLOR DETAILS



TM30: 93,2



CRI: 93,8 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,8 | 98,7 | 90,9 | 91,4 | 96,3 | 96,0 | 93,7 | 88,8 | 76,2 | 96,2 | 89,4 | 84,9 | 96,3 | 94,2 | 91,5 |

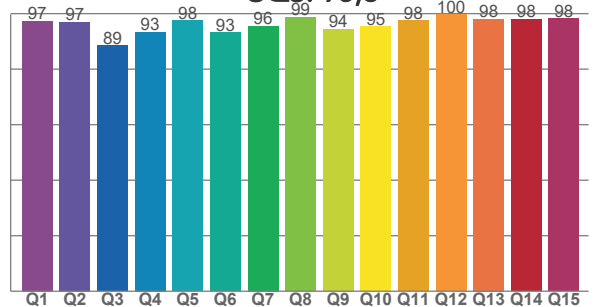
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,6 | 97,1 | 95,2 | 94,7 | 92,8 | 92,7 | 94,8 | 94,9 | 96,0 | 95,3 | 88,5 | 88,2 | 92,1 | 90,8 | 91,1 | 89,1 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 97,4 | 96,9 | 88,5 | 93,4 | 97,5 | 93,2 | 95,5 | 98,7 | 94,5 | 95,4 | 97,5 | 99,7 | 98,1 | 97,9 | 98,2 |

CQS: 95,3



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 |
| 4270 K | 93,8 | 76,2 | 93,2 | 105,5 | 95,3 | 97 | 0,367 | 0,360 | -0,0042 |

TM30 DETAILS

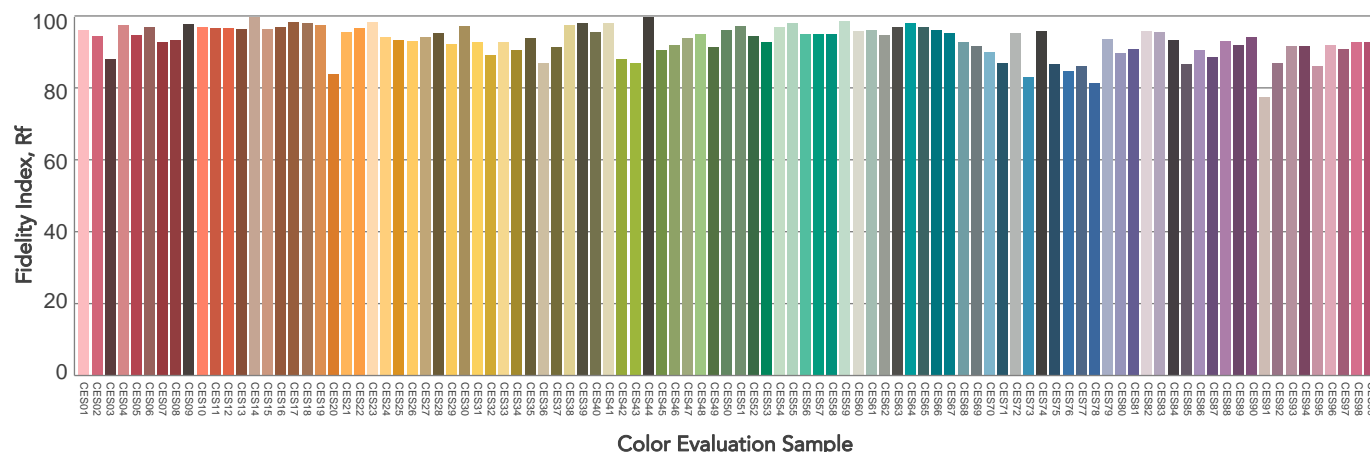
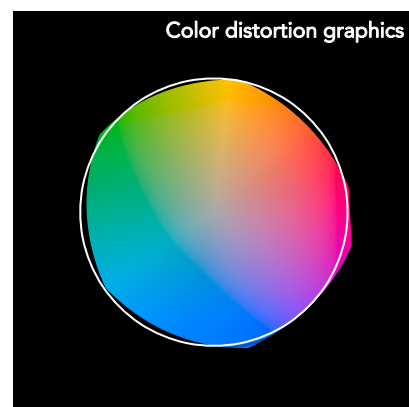
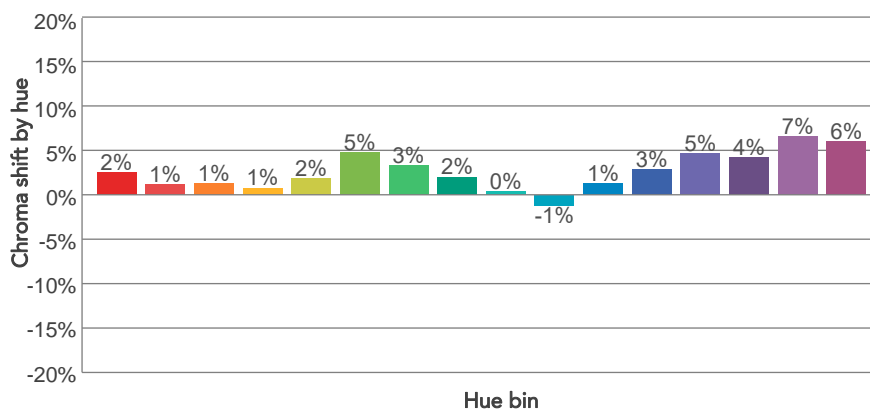
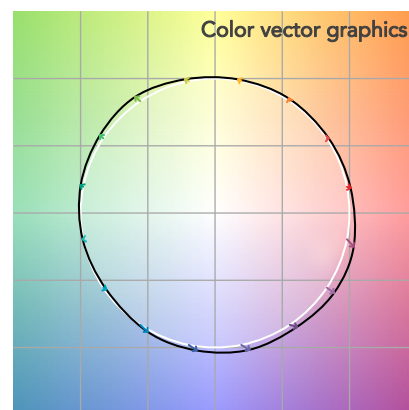
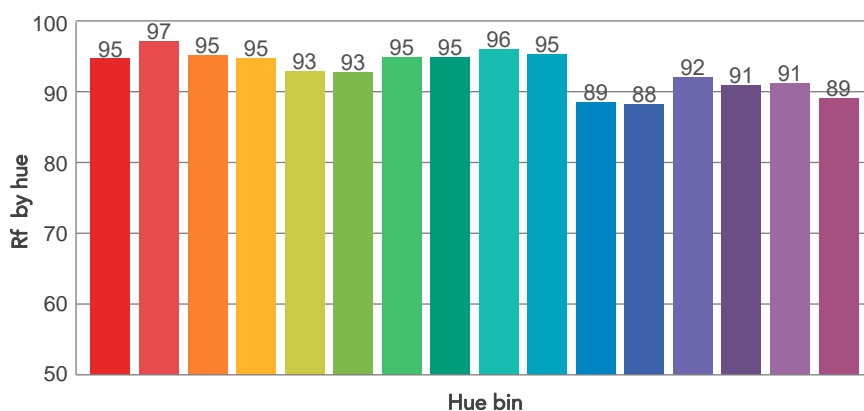
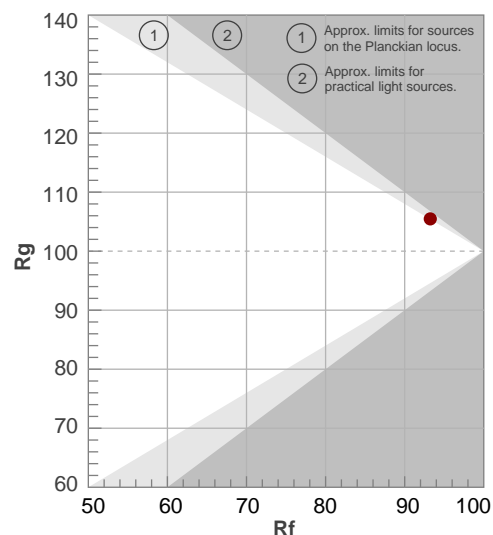
Rf 93,2

Fidelity index Rf

Rg 105,5

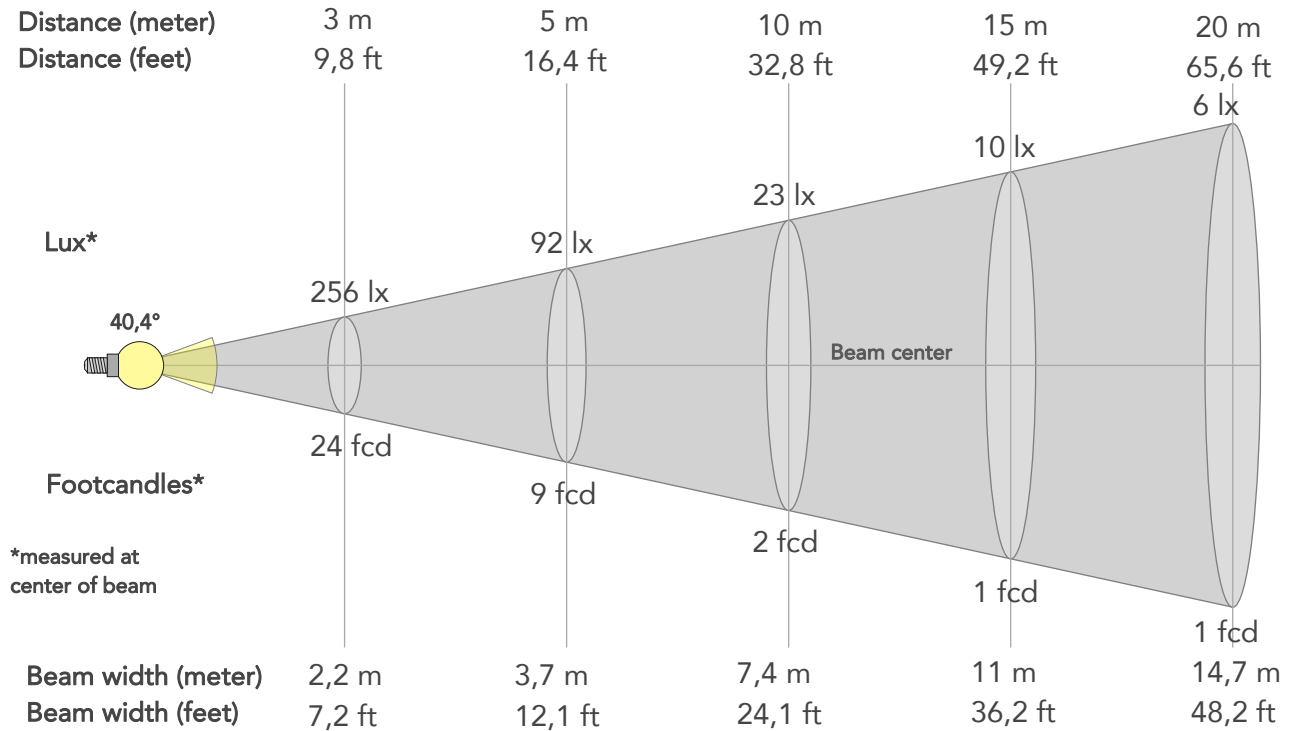
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 95 | 2% | -1% |
| 2 | 97 | 1% | -1% |
| 3 | 95 | 1% | 2% |
| 4 | 95 | 1% | 2% |
| 5 | 93 | 2% | 3% |
| 6 | 93 | 5% | 1% |
| 7 | 95 | 3% | -1% |
| 8 | 95 | 2% | -1% |
| 9 | 96 | 0% | 0% |
| 10 | 95 | -1% | 2% |
| 11 | 89 | 1% | 7% |
| 12 | 88 | 3% | 7% |
| 13 | 92 | 5% | 5% |
| 14 | 91 | 4% | 4% |
| 15 | 91 | 7% | 0% |
| 16 | 89 | 6% | -4% |



BEAM DETAILS

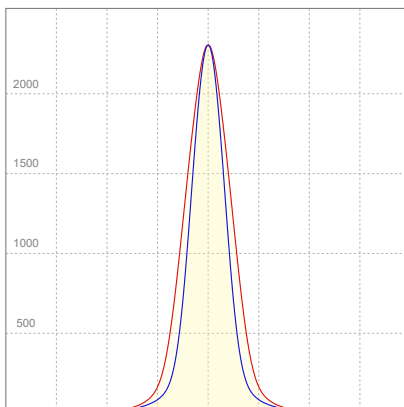
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 40,4° | 74° | 111,6° | 95,5% | 88,4% |



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 | 2302lx | 575lx | 256lx | 144lx | 92lx | 41lx | 23lx | 10lx | 6lx | 4lx | 3lx | 1lx | 1lx |
| Footcand. | 214fcd | 53fcd | 24fcd | 13fcd | 9fcd | 4fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,7m | 1,5m | 2,2m | 2,9m | 3,7m | 5,5m | 7,4m | 11m | 14,7m | 18,4m | 22,1m | 29,4m | 36,8m |
| Beam wid. | 2,4ft | 4,9ft | 7,2ft | 9,6ft | 12,1ft | 18,1ft | 24,1ft | 36,2ft | 48,2ft | 60,3ft | 72,4ft | 96,5ft | 120,6ft |

LINEAR DISTRIBUTION DIAGRAM

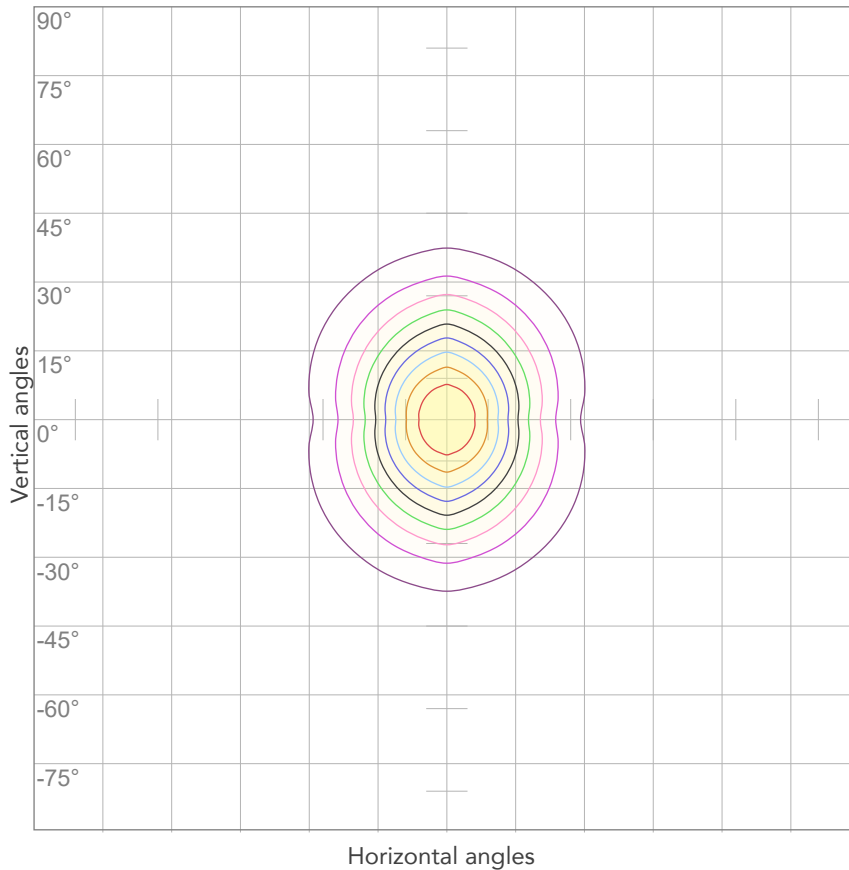


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Efficiency |
|---------------|---------------|-------------|----------|------------|
| 225V | 0,146A | 31,4W | 0,96 | 45lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



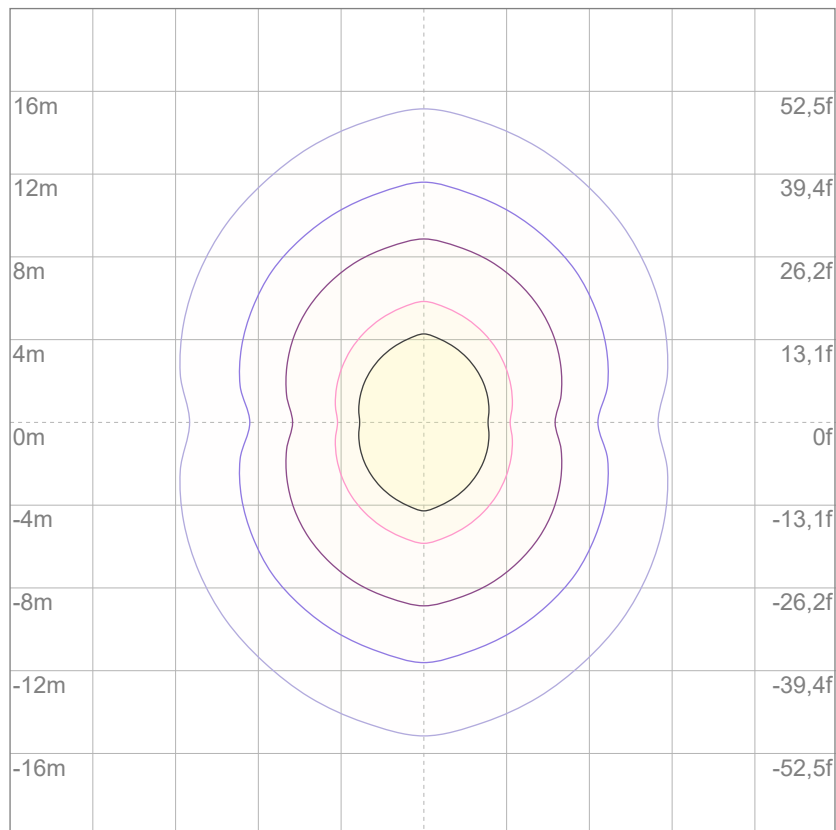
| | |
|-----|---------|
| 10% | 230 cd |
| 20% | 460 cd |
| 30% | 691 cd |
| 40% | 921 cd |
| 50% | 1151 cd |
| 60% | 1381 cd |
| 70% | 1611 cd |
| 80% | 1841 cd |

Conditions:

Number of c-planes: 4

Candela at center: 2302 cd

ISO LUX DIAGRAM



| | |
|-----|----------|
| 3% | 0,691 lx |
| 5% | 1,15 lx |
| 10% | 2,30 lx |
| 30% | 6,91 lx |
| 50% | 11,5 lx |

Conditions:

Number of c-planes: 4

Lux at center: 23,0 lx

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



Total lumen output:

1166 lm

Peak candela output:

22763 cd

Light quality:

CRI: 96,6

Color temperature:

2616 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10°

Target:

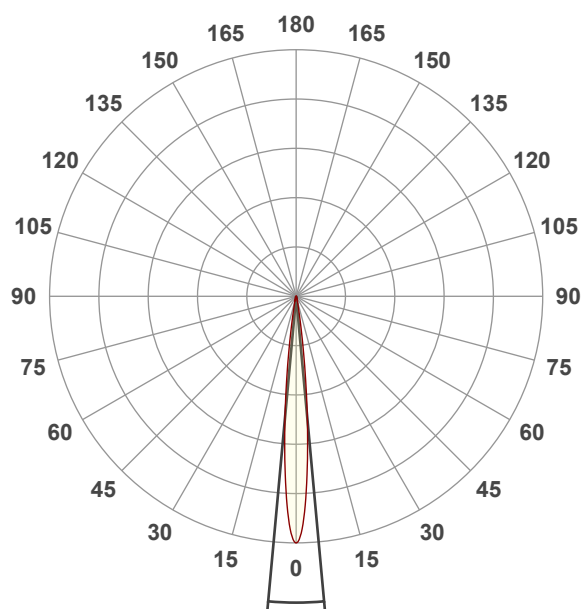
Warm White

Operator:

Salvatore Giglio

Date and time:

19/02/2024 16:13:45

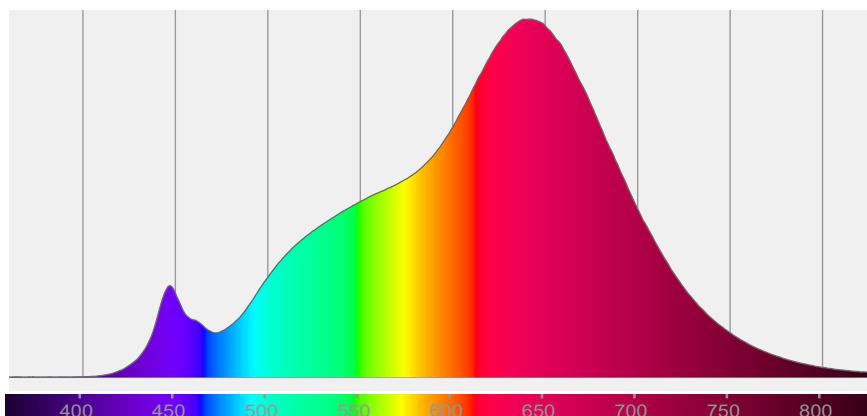


Beam angle 50%: 10,5°

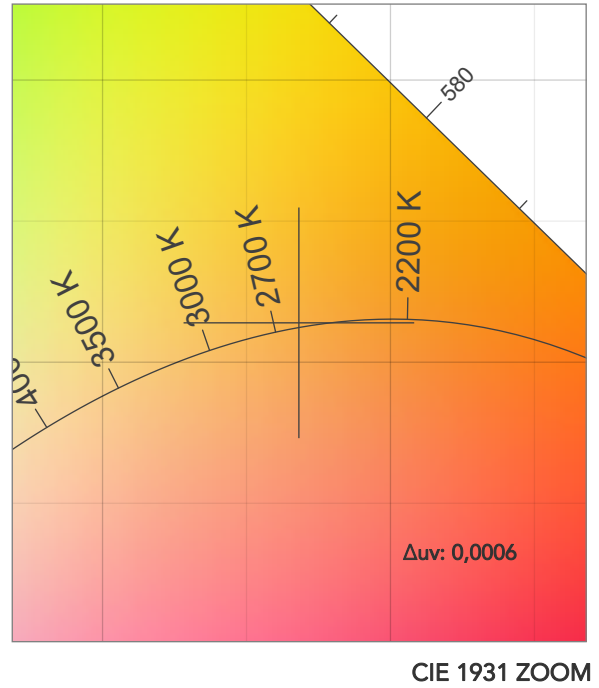
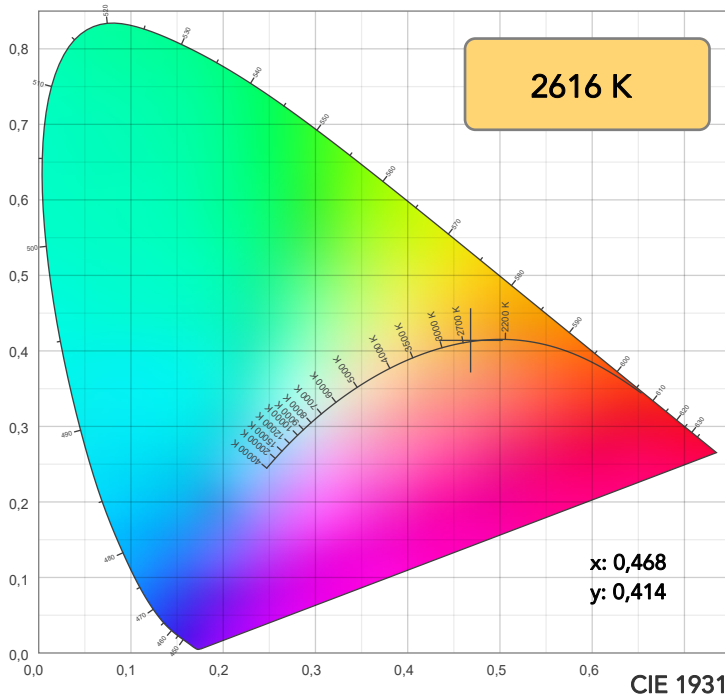
Field angle 10%: 18,8°

Cut off angle 2.5%: 27,6°

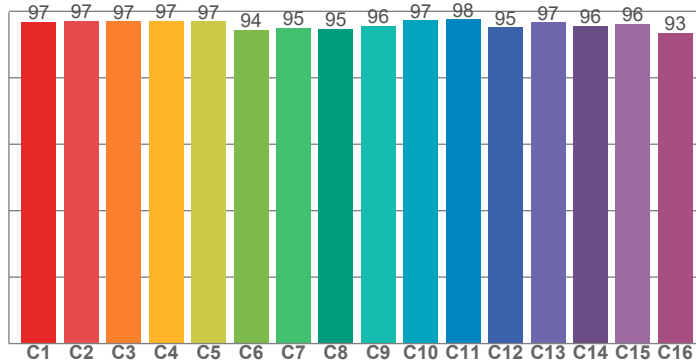
Spectra



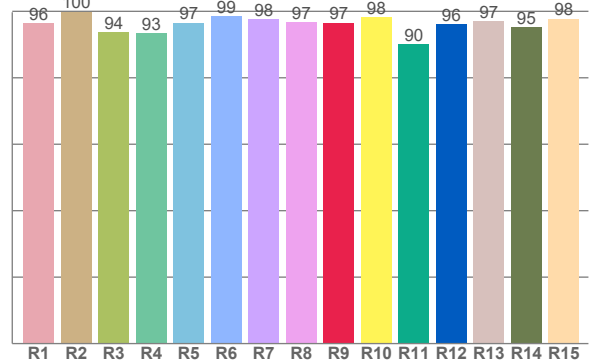
COLOR DETAILS



TM30: 96,2



CRI: 96,6 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,4 | 99,8 | 93,7 | 93,3 | 96,6 | 98,6 | 97,5 | 96,6 | 96,6 | 98,3 | 90,0 | 96,1 | 97,1 | 95,3 | 97,7 |

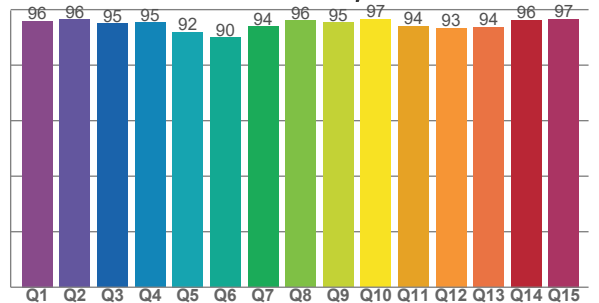
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,9 | 97,2 | 97,0 | 97,2 | 97,0 | 94,4 | 95,1 | 94,7 | 95,5 | 97,2 | 97,5 | 95,1 | 96,6 | 95,6 | 96,2 | 93,5 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,9 | 96,4 | 94,9 | 95,3 | 92,0 | 90,0 | 93,9 | 96,0 | 95,3 | 96,5 | 94,0 | 93,4 | 93,7 | 96,3 | 96,6 |

CQS: 94,1



COLOR PARAMETERS

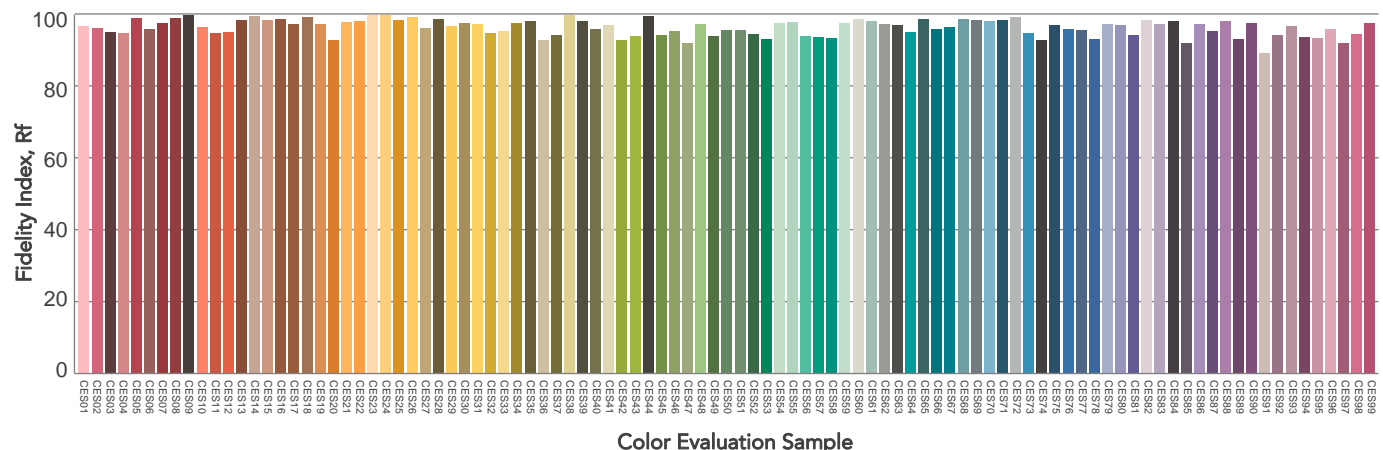
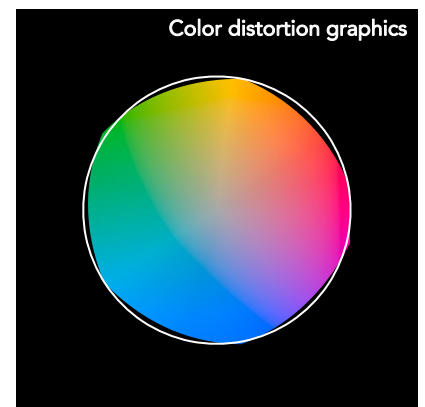
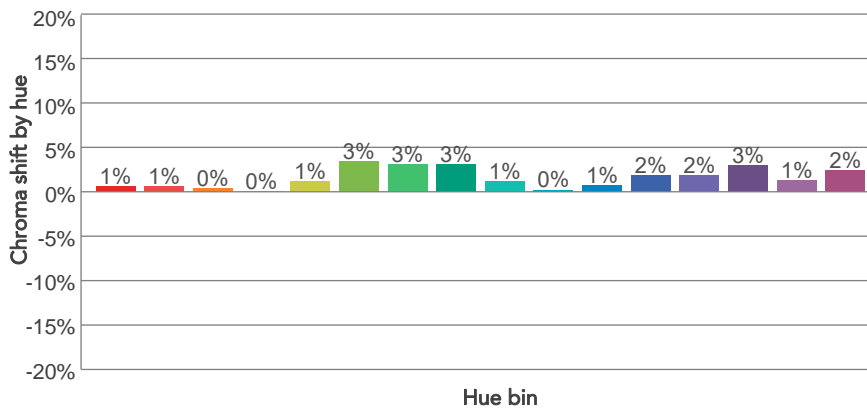
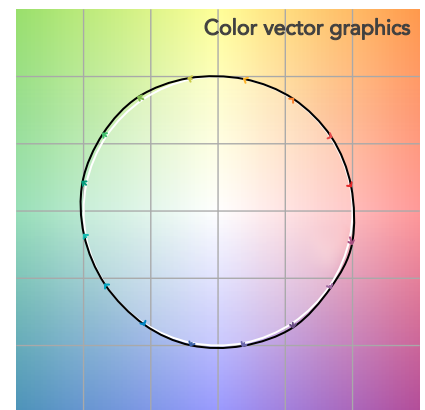
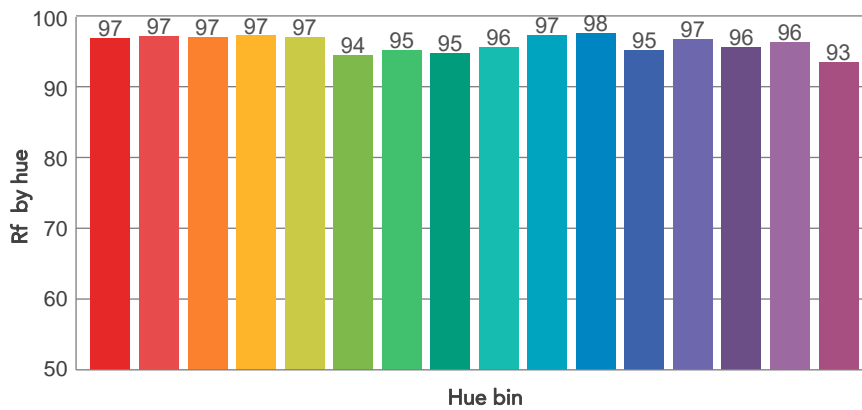
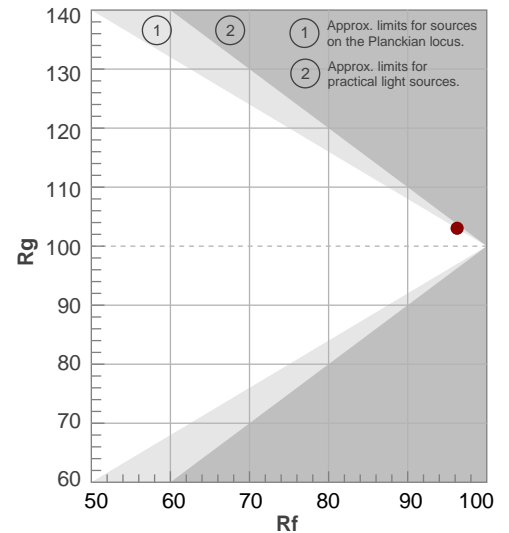
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 2616 K | 96,6 | 96,6 | 96,2 | 103,0 | 94,1 | 98 | 0,468 | 0,414 | 0,0006 |

TM30 DETAILS

Rf 96,2
Fidelity index Rf

Rg 103,0
Gammut index

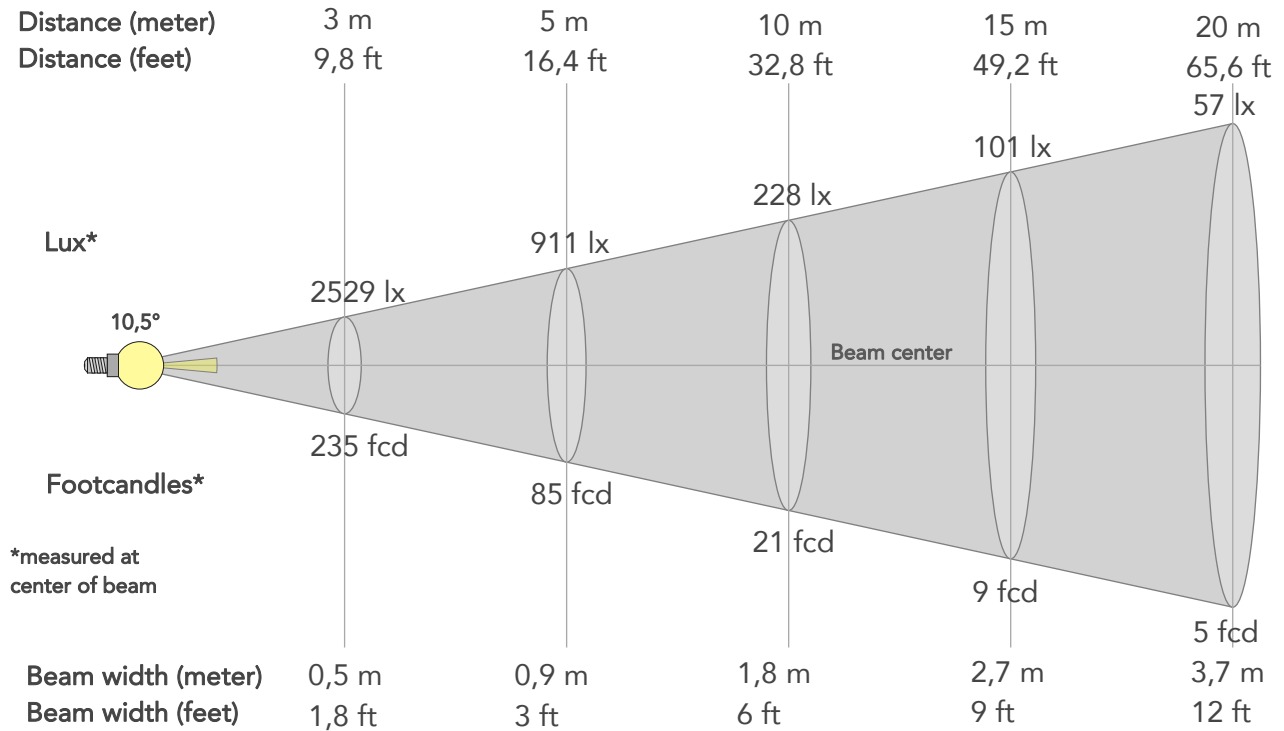
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 97 | 1% | -1% |
| 2 | 97 | 1% | -1% |
| 3 | 97 | 0% | 0% |
| 4 | 97 | 0% | 0% |
| 5 | 97 | 1% | 2% |
| 6 | 94 | 3% | 2% |
| 7 | 95 | 3% | 0% |
| 8 | 95 | 3% | -2% |
| 9 | 96 | 1% | -2% |
| 10 | 97 | 0% | -1% |
| 11 | 98 | 1% | 1% |
| 12 | 95 | 2% | 0% |
| 13 | 97 | 2% | -2% |
| 14 | 96 | 3% | -2% |
| 15 | 96 | 1% | -1% |
| 16 | 93 | 2% | -4% |



BEAM DETAILS



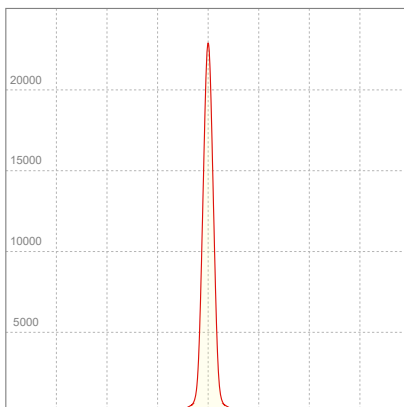
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 10,5° | 18,8° | 27,6° | 97,6% | 94,5% |



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 | 22763lx | 5691lx | 2529lx | 1423lx | 911lx | 405lx | 228lx | 101lx | 57lx | 36lx | 25lx | 14lx | 9lx |
| Footcand. | 2115fcd | 529fcd | 235fcd | 132fcd | 85fcd | 38fcd | 21fcd | 9fcd | 5fcd | 3fcd | 2fcd | 1fcd | 1fcd |
| Beam wid. | 0,2m | 0,4m | 0,5m | 0,7m | 0,9m | 1,4m | 1,8m | 2,7m | 3,7m | 4,6m | 5,5m | 7,3m | 9,2m |
| Beam wid. | 0,6ft | 1,2ft | 1,8ft | 2,4ft | 3ft | 4,5ft | 6ft | 9ft | 12ft | 15ft | 18ft | 24ft | 30,1ft |

LINEAR DISTRIBUTION DIAGRAM

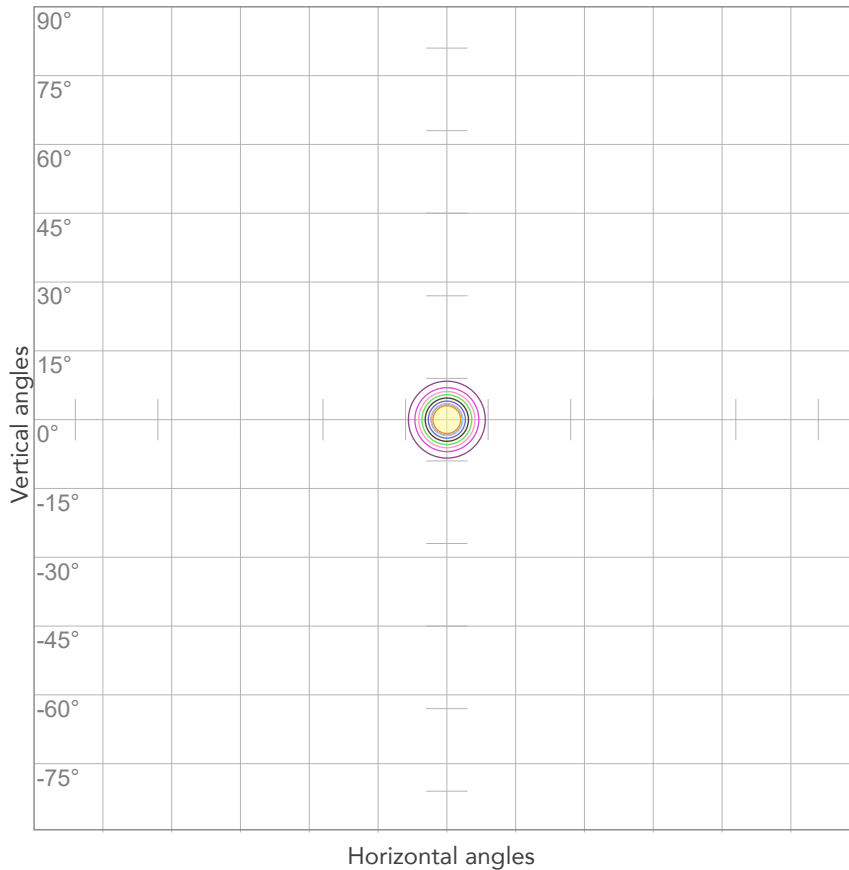


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Effeciency |
|---------------|---------------|-------------|----------|------------|
| 227V | 0,126A | 26,5W | 0,93 | 44lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



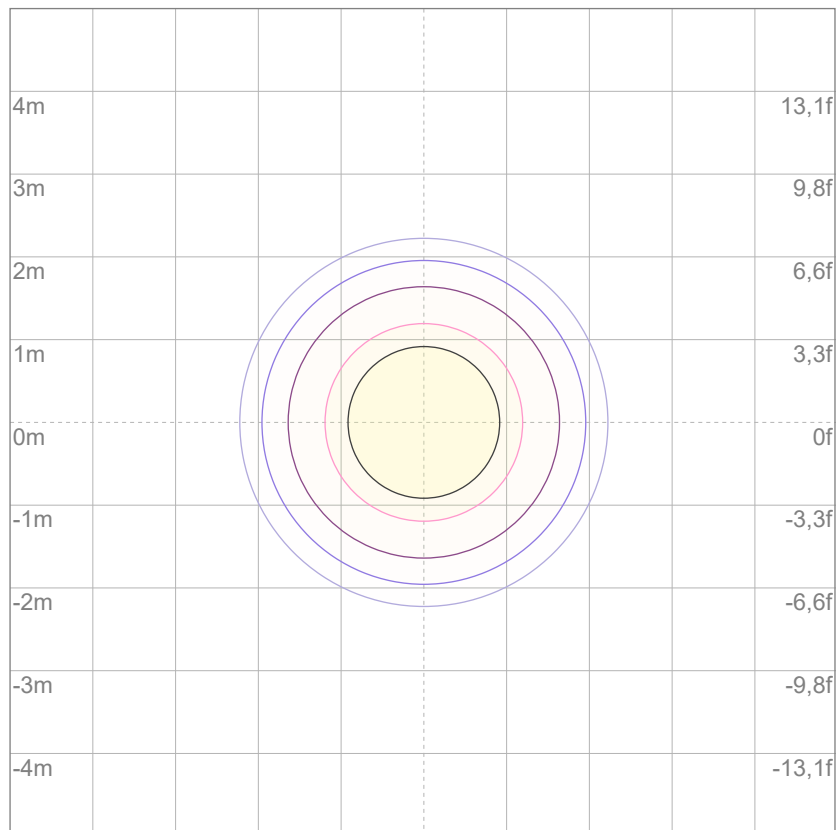
| | |
|-----|----------|
| 10% | 2276 cd |
| 20% | 4553 cd |
| 30% | 6829 cd |
| 40% | 9105 cd |
| 50% | 11381 cd |
| 60% | 13658 cd |
| 70% | 15934 cd |
| 80% | 18210 cd |

Conditions:

Number of c-planes: 2

Candela at center: 22763 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 6,83 lx |
| 5% | 11,4 lx |
| 10% | 22,8 lx |
| 30% | 68,3 lx |
| 50% | 114 lx |

Conditions:

Number of c-planes: 2

Lux at center: 228 lx

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



Total lumen output:

1071 lm

Peak candela output:

4350 cd

Light quality:

CRI: 96,5

Color temperature:

2611 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 20° Filter

Target:

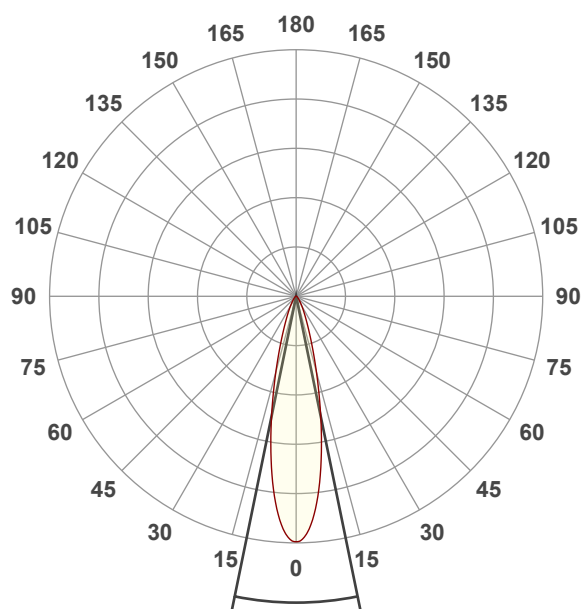
Warm White

Operator:

Salvatore Giglio

Date and time:

19/02/2024 17:12:35

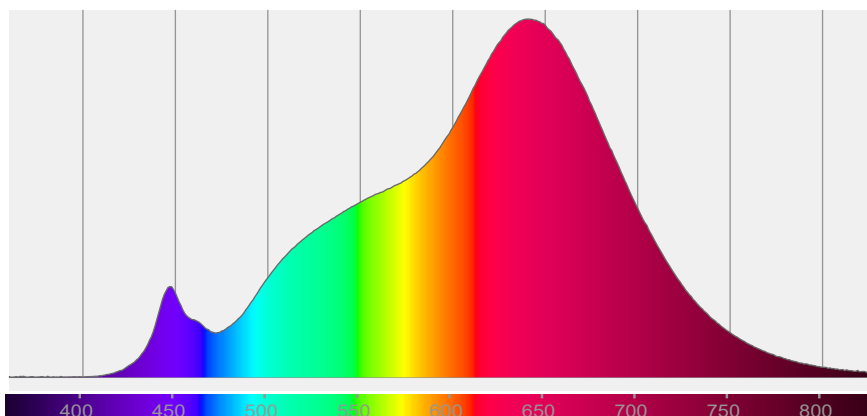


Beam angle 50%: 23,1°

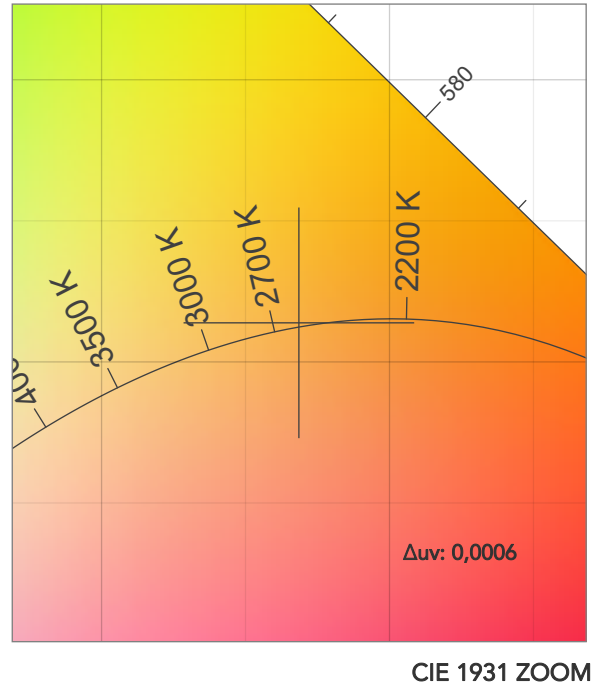
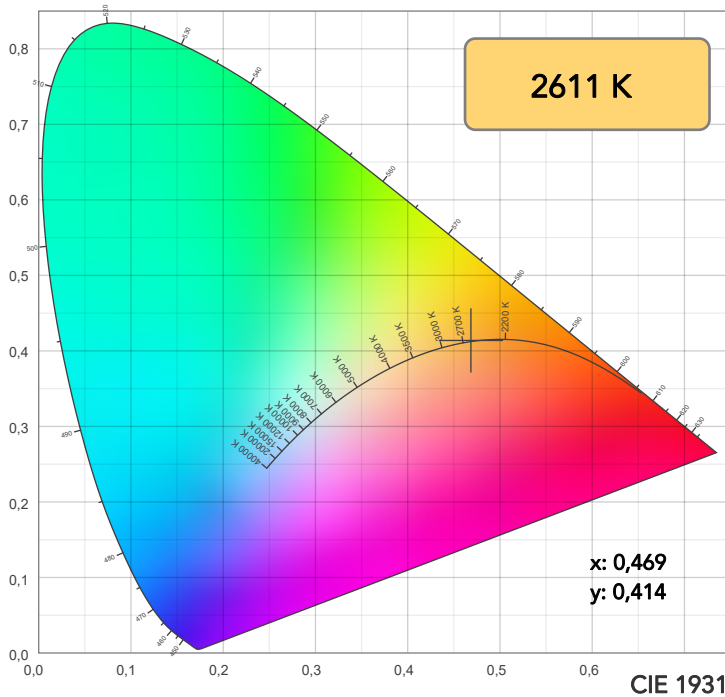
Field angle 10%: 46,9°

Cut off angle 2.5%: 72,8°

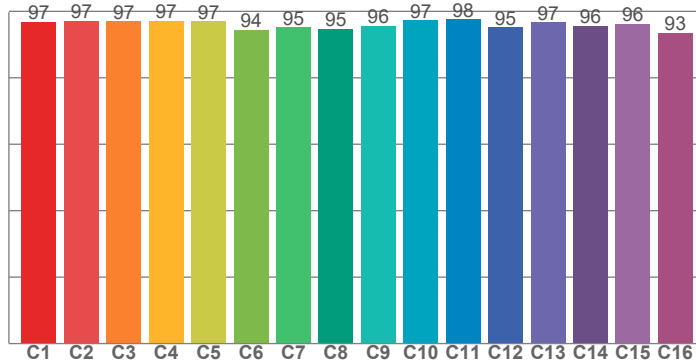
Spectra



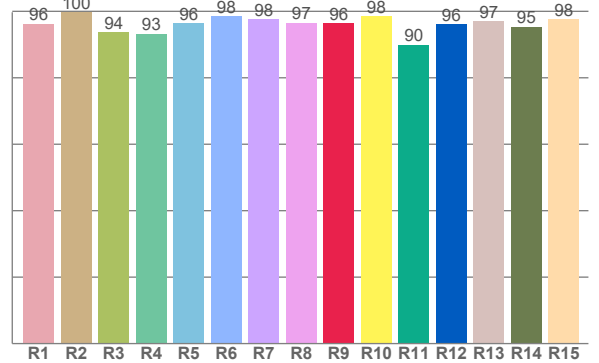
COLOR DETAILS



TM30: 96,3



CRI: 96,5 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,3 | 99,8 | 93,8 | 93,3 | 96,5 | 98,5 | 97,5 | 96,6 | 96,4 | 98,4 | 89,9 | 96,2 | 97,0 | 95,3 | 97,7 |

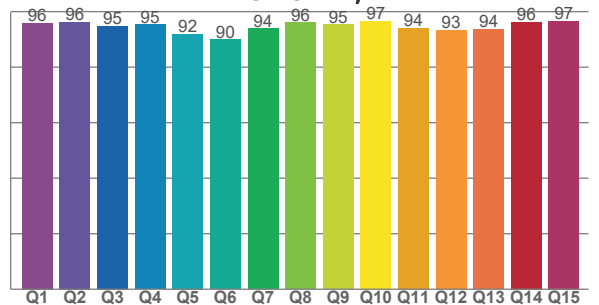
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,9 | 97,2 | 97,0 | 97,2 | 97,0 | 94,4 | 95,1 | 94,6 | 95,6 | 97,2 | 97,5 | 95,1 | 96,6 | 95,6 | 96,2 | 93,4 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,9 | 96,3 | 94,9 | 95,3 | 92,0 | 90,0 | 93,9 | 96,0 | 95,3 | 96,6 | 94,1 | 93,4 | 93,7 | 96,3 | 96,6 |

CQS: 94,1



COLOR PARAMETERS

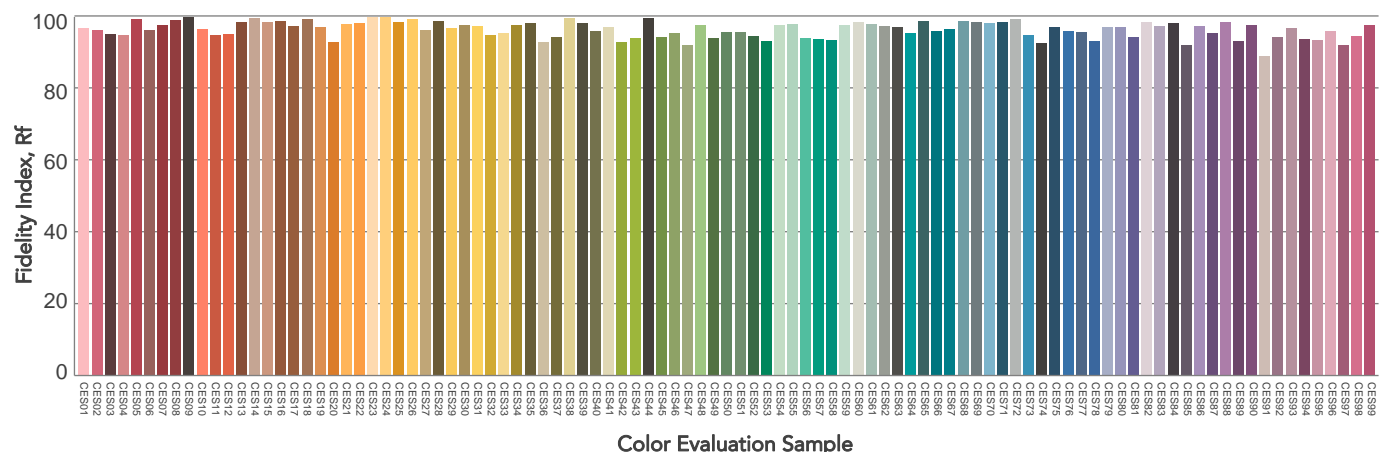
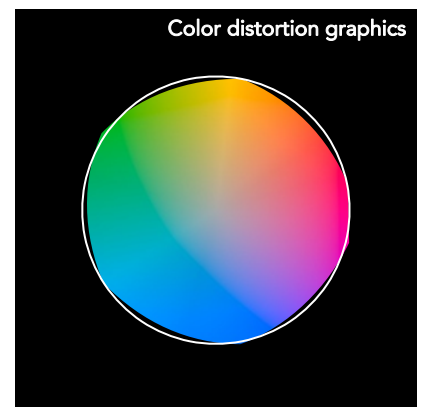
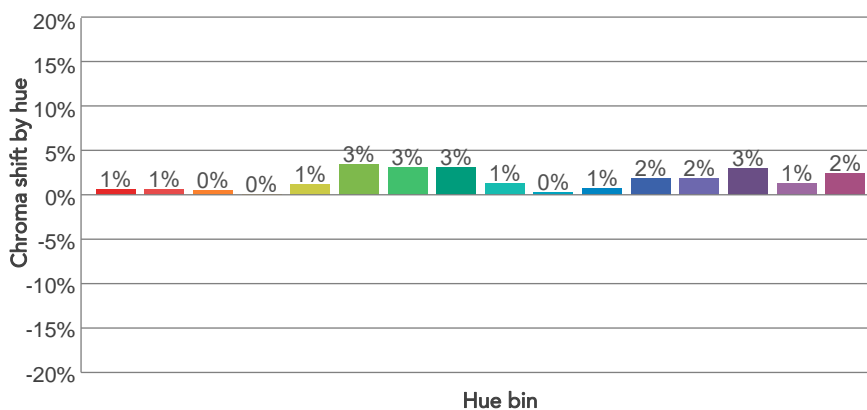
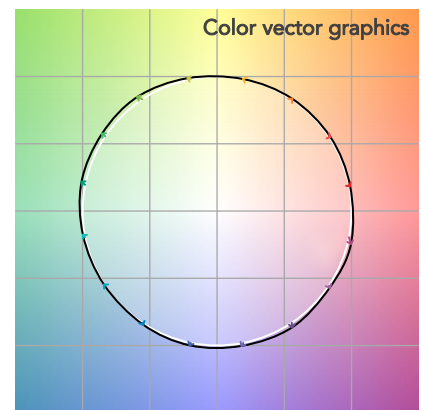
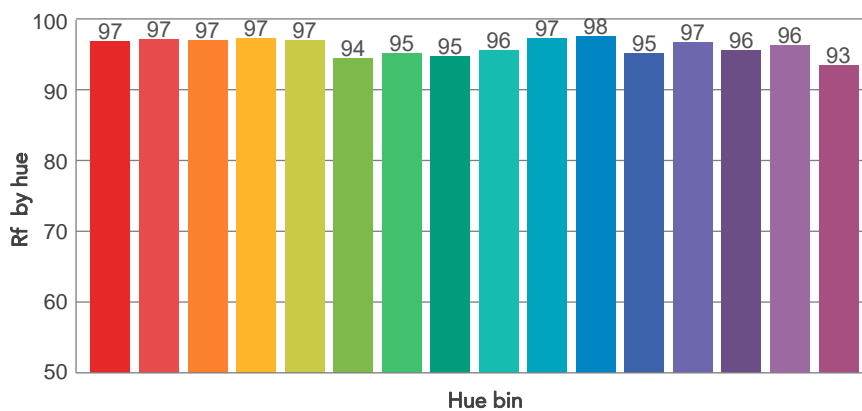
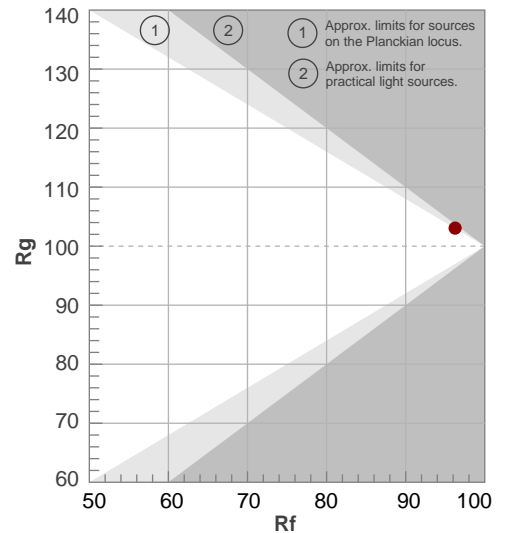
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 2611 K | 96,5 | 96,4 | 96,3 | 103,1 | 94,1 | 98 | 0,469 | 0,414 | 0,0006 |

TM30 DETAILS

Rf 96,3
Fidelity index Rf

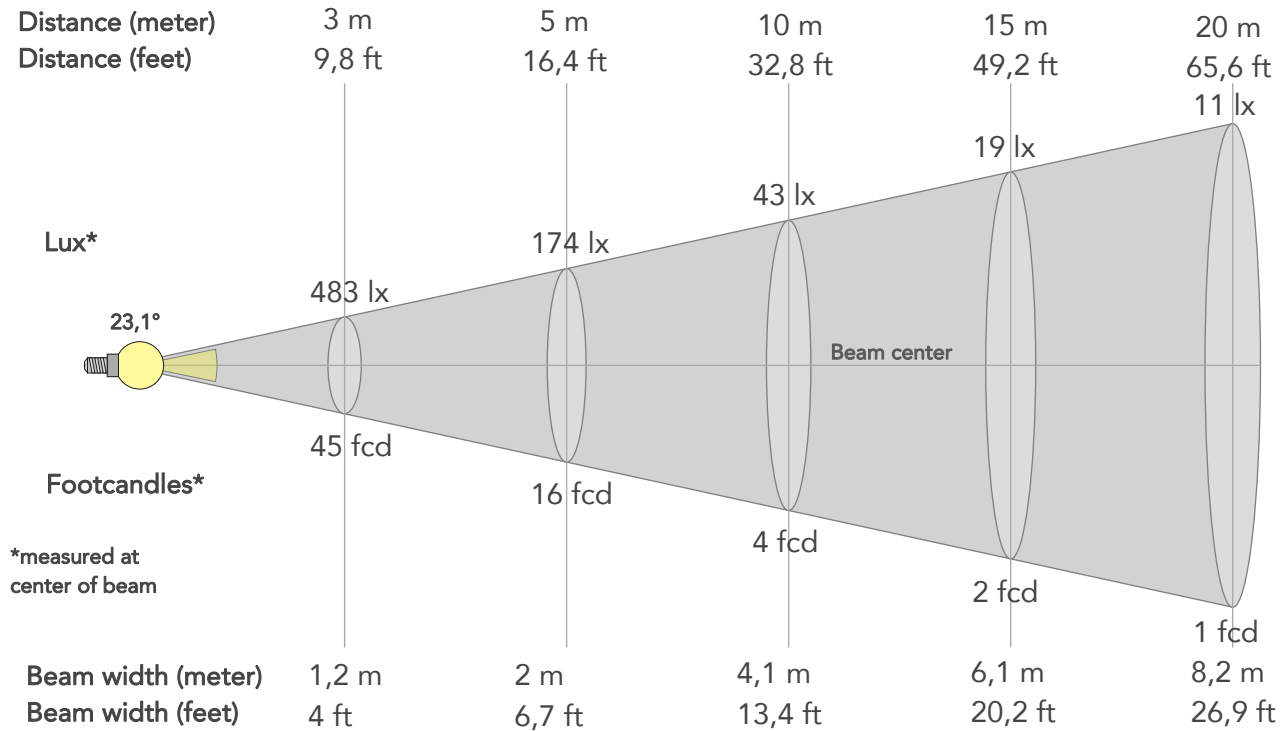
Rg 103,1
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 97 | 1% | -1% |
| 2 | 97 | 1% | -1% |
| 3 | 97 | 0% | 0% |
| 4 | 97 | 0% | 0% |
| 5 | 97 | 1% | 2% |
| 6 | 94 | 3% | 2% |
| 7 | 95 | 3% | 0% |
| 8 | 95 | 3% | -2% |
| 9 | 96 | 1% | -2% |
| 10 | 97 | 0% | -1% |
| 11 | 98 | 1% | 1% |
| 12 | 95 | 2% | -1% |
| 13 | 97 | 2% | -2% |
| 14 | 96 | 3% | -2% |
| 15 | 96 | 1% | -1% |
| 16 | 93 | 2% | -4% |



BEAM DETAILS

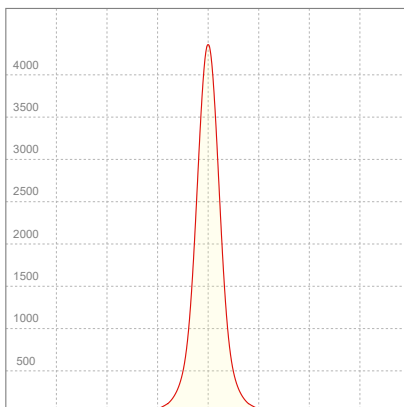
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 23,1° | 46,9° | 72,8° | 96,8% | 92,6% |



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 | 4350lx | 1087lx | 483lx | 272lx | 174lx | 77lx | 43lx | 19lx | 11lx | 7lx | 5lx | 3lx | 2lx |
| Footcand. | 404fcd | 101fcd | 45fcd | 25fcd | 16fcd | 7fcd | 4fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,4m | 0,8m | 1,2m | 1,6m | 2m | 3,1m | 4,1m | 6,1m | 8,2m | 10,2m | 12,3m | 16,4m | 20,5m |
| Beam wid. | 1,4ft | 2,7ft | 4ft | 5,4ft | 6,7ft | 10,1ft | 13,4ft | 20,2ft | 26,9ft | 33,6ft | 40,3ft | 53,7ft | 67,2ft |

LINEAR DISTRIBUTION DIAGRAM

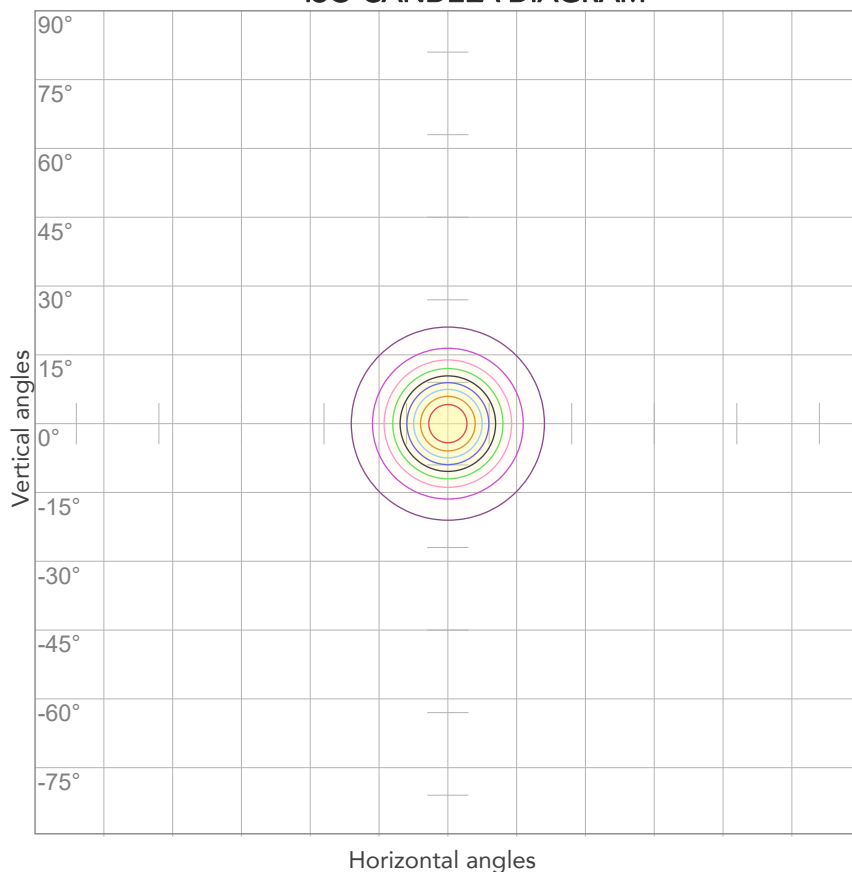


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Efficiency |
|---------------|---------------|-------------|----------|------------|
| 226V | 0,126A | 26,5W | 0,93 | 40lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



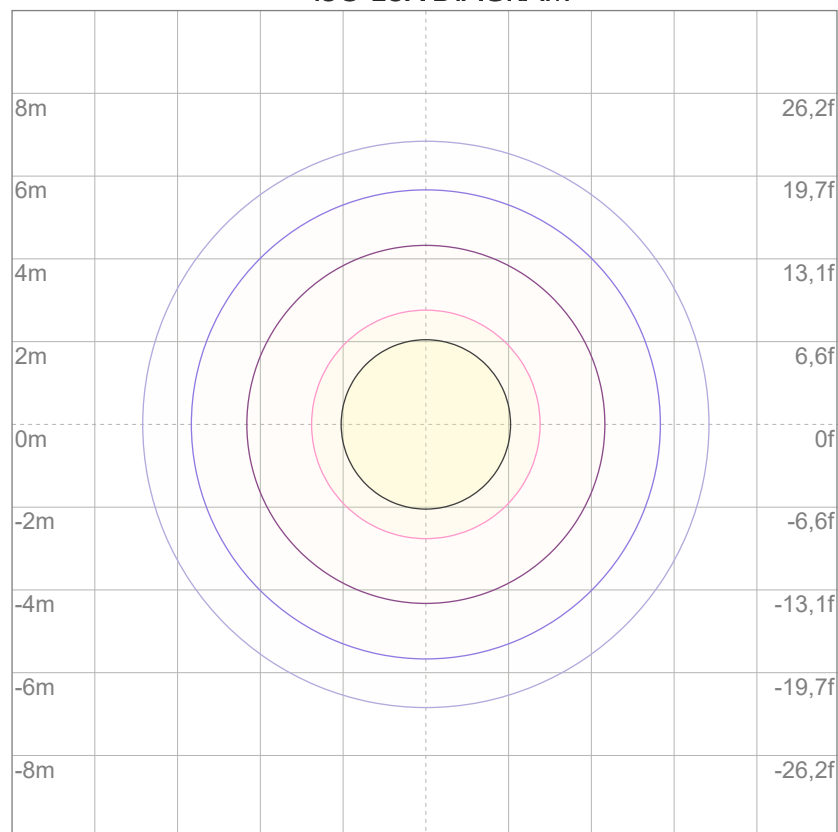
| | |
|-----|---------|
| 10% | 435 cd |
| 20% | 870 cd |
| 30% | 1305 cd |
| 40% | 1740 cd |
| 50% | 2175 cd |
| 60% | 2610 cd |
| 70% | 3045 cd |
| 80% | 3480 cd |

Conditions:

Number of c-planes: 2

Candela at center: 4350 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 1,30 lx |
| 5% | 2,17 lx |
| 10% | 4,35 lx |
| 30% | 13,0 lx |
| 50% | 21,7 lx |

Conditions:

Number of c-planes: 2

Lux at center: 43,5 lx

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



Total lumen output:

1006 lm

Peak candela output:

1246 cd

Light quality:

CRI: 96,5

Color temperature:

2599 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 40° Filter

Target:

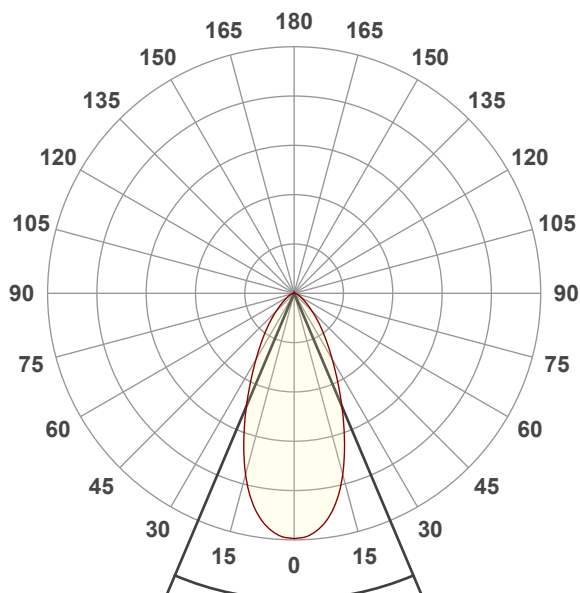
Warm White

Operator:

Salvatore Giglio

Date and time:

19/02/2024 17:52:26

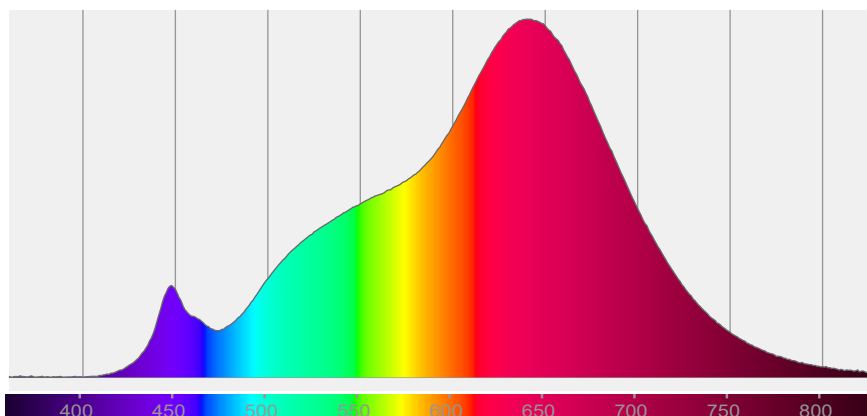


Beam angle 50%: 45,8°

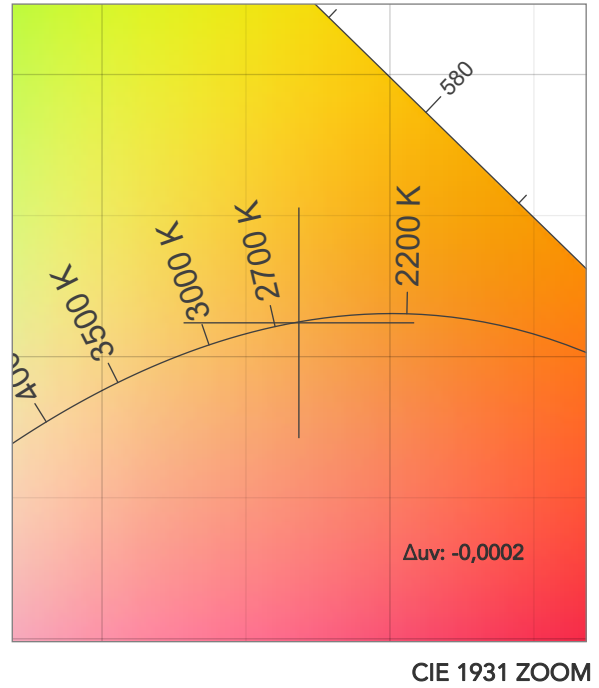
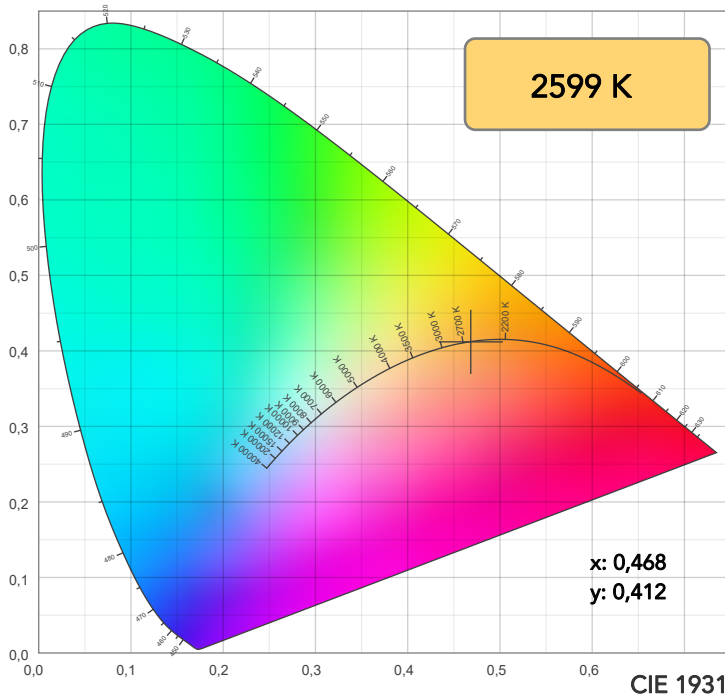
Field angle 10%: 91,1°

Cut off angle 2.5%: 127,9°

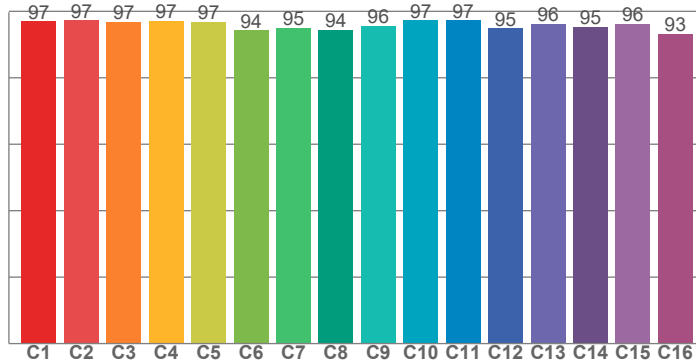
Spectra



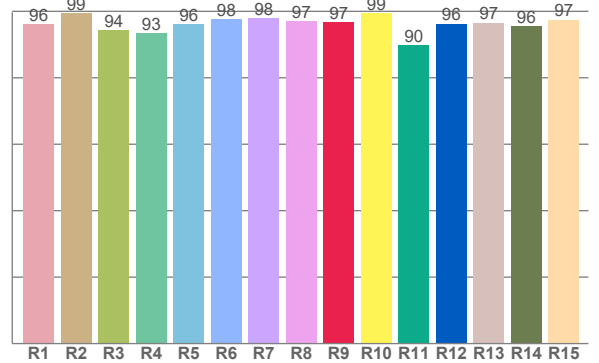
COLOR DETAILS



TM30: 96,2



CRI: 96,5 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,0 | 99,4 | 94,4 | 93,3 | 96,1 | 97,6 | 98,0 | 97,0 | 96,6 | 99,4 | 89,8 | 96,2 | 96,6 | 95,6 | 97,4 |

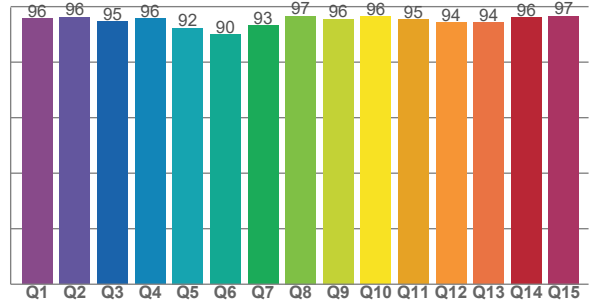
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 97,0 | 97,3 | 96,9 | 97,1 | 96,9 | 94,2 | 95,0 | 94,4 | 95,6 | 97,3 | 97,3 | 94,9 | 96,2 | 95,3 | 96,2 | 93,3 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,7 | 96,2 | 94,6 | 95,7 | 92,2 | 89,9 | 93,2 | 96,7 | 95,5 | 96,5 | 95,4 | 94,2 | 94,3 | 96,0 | 96,6 |

CQS: 94,2



COLOR PARAMETERS

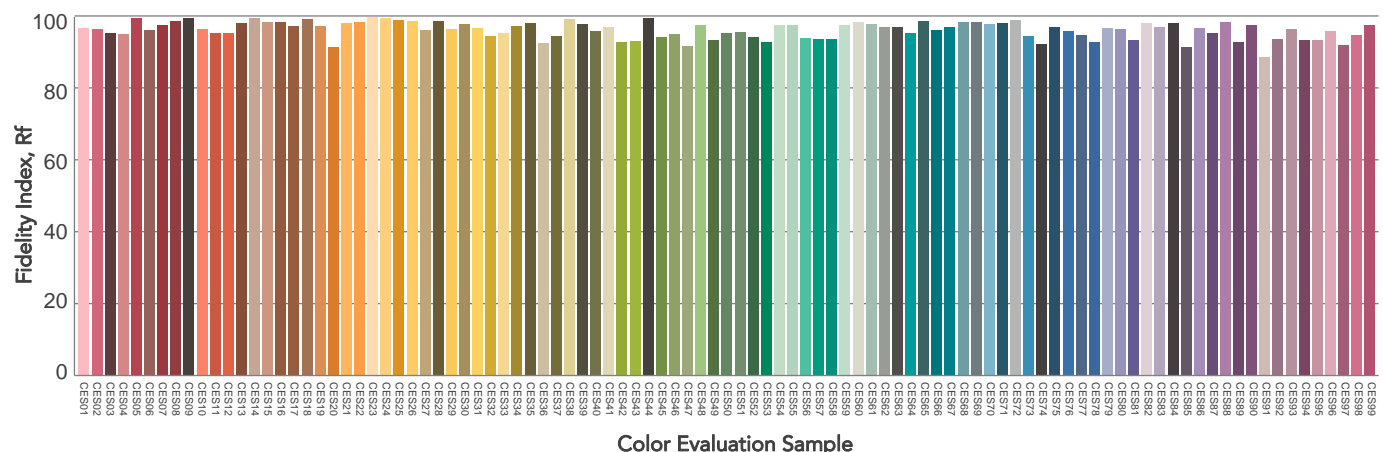
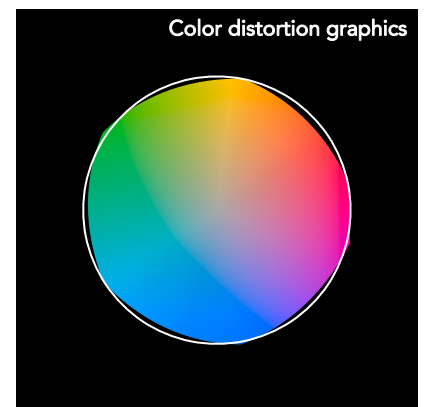
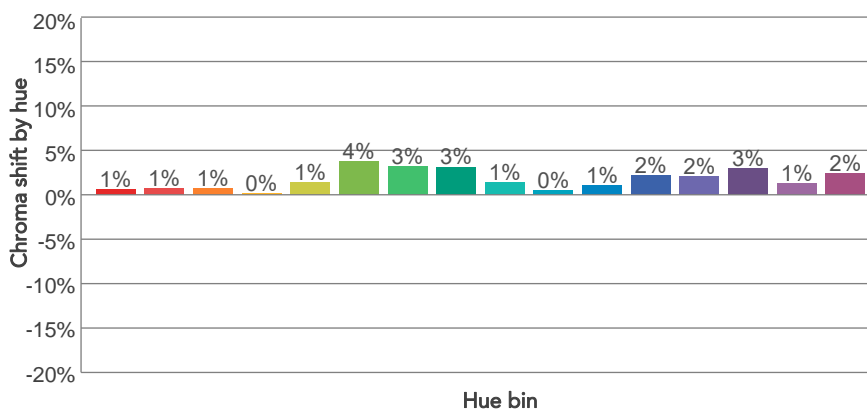
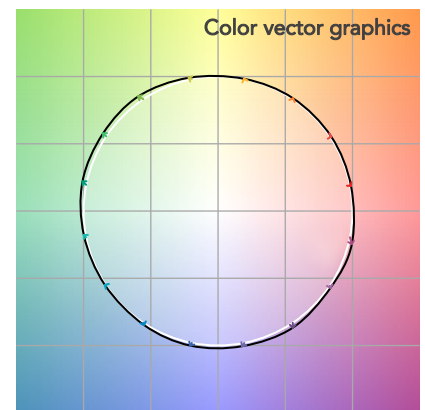
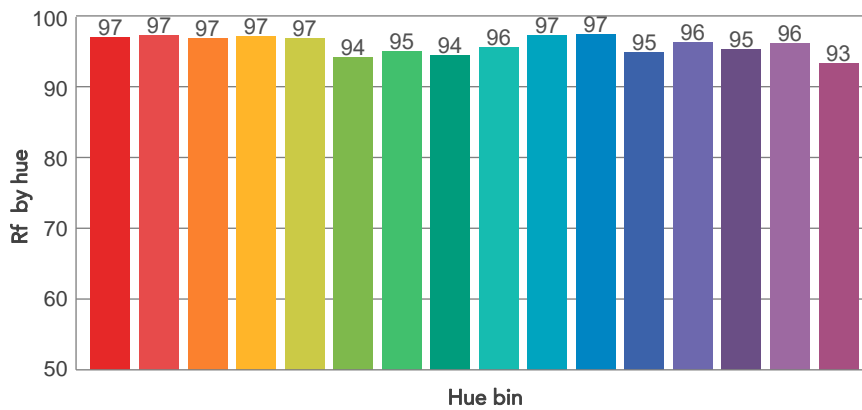
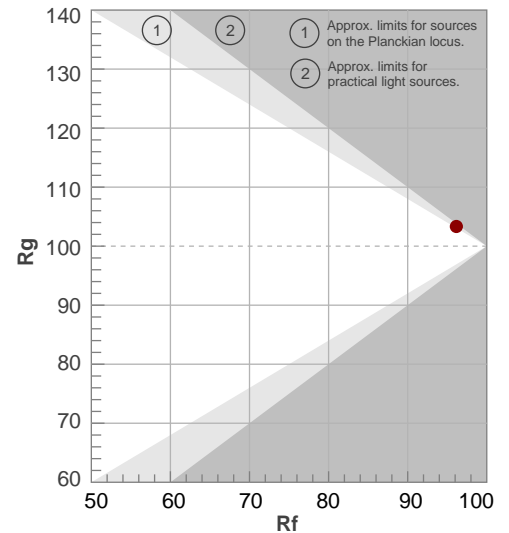
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 2599 K | 96,5 | 96,6 | 96,2 | 103,3 | 94,2 | 98 | 0,468 | 0,412 | -0,0002 |

TM30 DETAILS

Rf 96,2
Fidelity index Rf

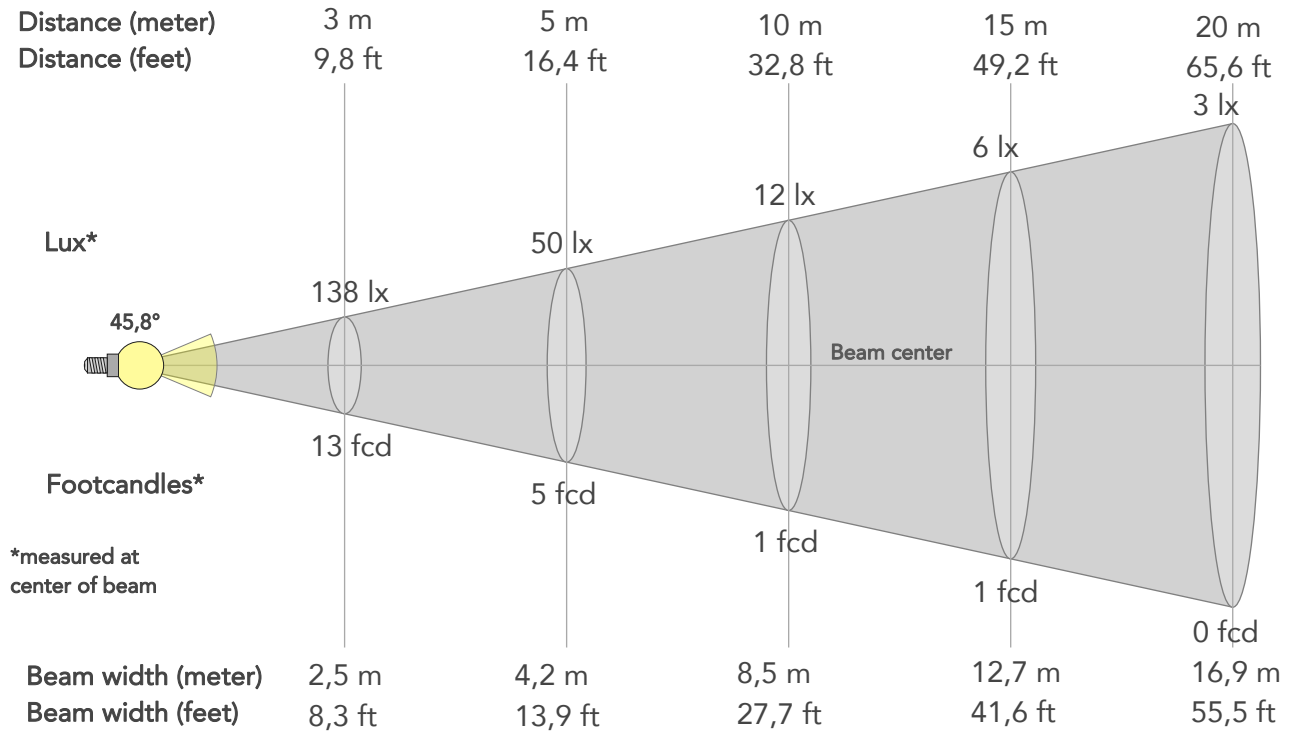
Rg 103,3
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 97 | 1% | -1% |
| 2 | 97 | 1% | -1% |
| 3 | 97 | 1% | 0% |
| 4 | 97 | 0% | 0% |
| 5 | 97 | 1% | 2% |
| 6 | 94 | 4% | 2% |
| 7 | 95 | 3% | 0% |
| 8 | 94 | 3% | -2% |
| 9 | 96 | 1% | -2% |
| 10 | 97 | 0% | -1% |
| 11 | 97 | 1% | 1% |
| 12 | 95 | 2% | -1% |
| 13 | 96 | 2% | -2% |
| 14 | 95 | 3% | -2% |
| 15 | 96 | 1% | -1% |
| 16 | 93 | 2% | -5% |



BEAM DETAILS

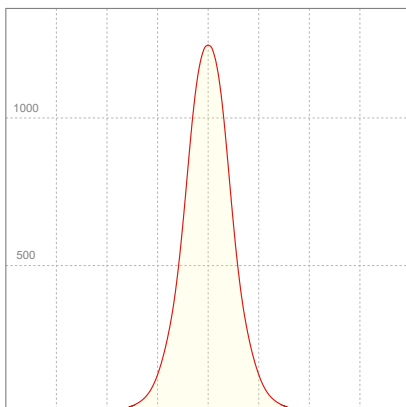
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 45,8° | 91,1° | 127,9° | 94,9% | 85,3% |



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 | 1246lx | 312lx | 138lx | 78lx | 50lx | 22lx | 12lx | 6lx | 3lx | 2lx | 1lx | 1lx | 0lx |
| Footcand. | 116fcd | 29fcd | 13fcd | 7fcd | 5fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,8m | 1,7m | 2,5m | 3,4m | 4,2m | 6,3m | 8,5m | 12,7m | 16,9m | 21,1m | 25,4m | 33,8m | 42,3m |
| Beam wid. | 2,8ft | 5,6ft | 8,3ft | 11,1ft | 13,9ft | 20,8ft | 27,7ft | 41,6ft | 55,5ft | 69,3ft | 83,2ft | 110,9ft | 138,6ft |

LINEAR DISTRIBUTION DIAGRAM

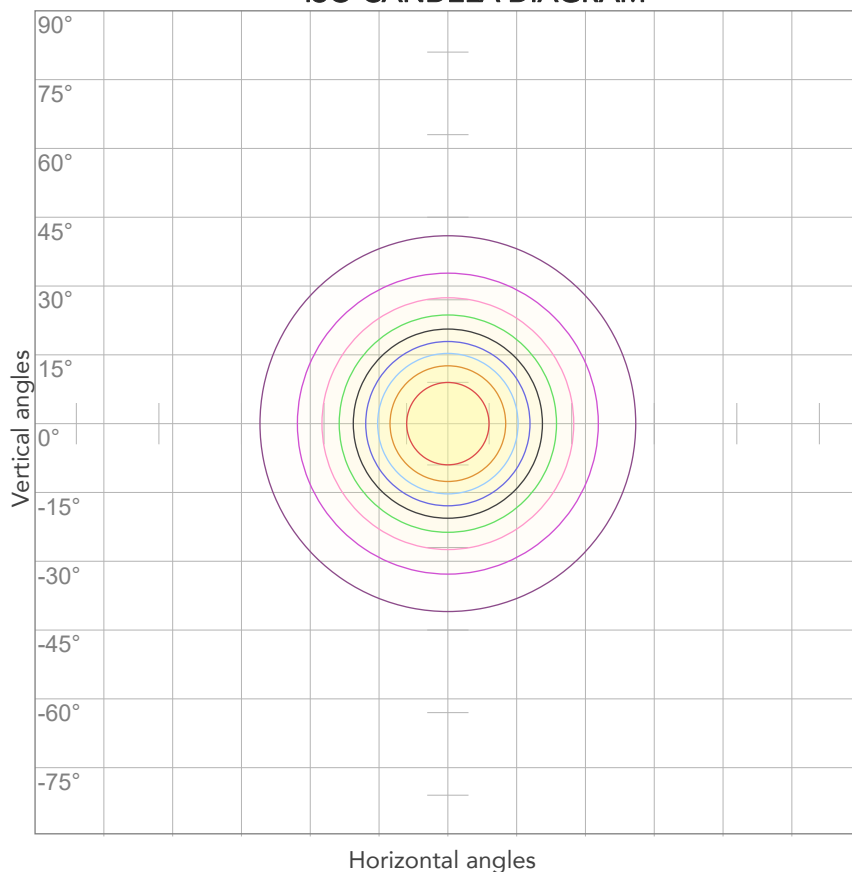


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Efficiency |
|---------------|---------------|-------------|----------|------------|
| 225V | 0,125A | 26,1W | 0,93 | 39lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



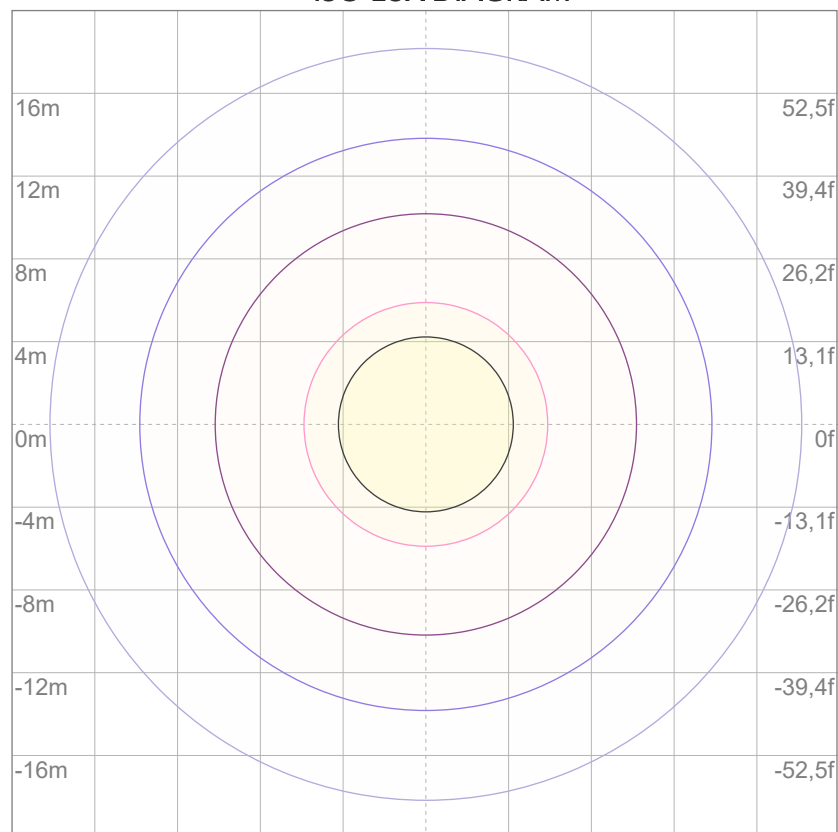
| | |
|-----|--------|
| 10% | 125 cd |
| 20% | 249 cd |
| 30% | 374 cd |
| 40% | 499 cd |
| 50% | 623 cd |
| 60% | 748 cd |
| 70% | 872 cd |
| 80% | 997 cd |

Conditions:

Number of c-planes: 2

Candela at center: 1246 cd

ISO LUX DIAGRAM



| | |
|-----|----------|
| 3% | 0,374 lx |
| 5% | 0,623 lx |
| 10% | 1,25 lx |
| 30% | 3,74 lx |
| 50% | 6,23 lx |

Conditions:

Number of c-planes: 2

Lux at center: 12,5 lx

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



Total lumen output:

1036 lm

Peak candela output:

943 cd

Light quality:

CRI: 96,5

Color temperature:

2636 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 60° Filter

Target:

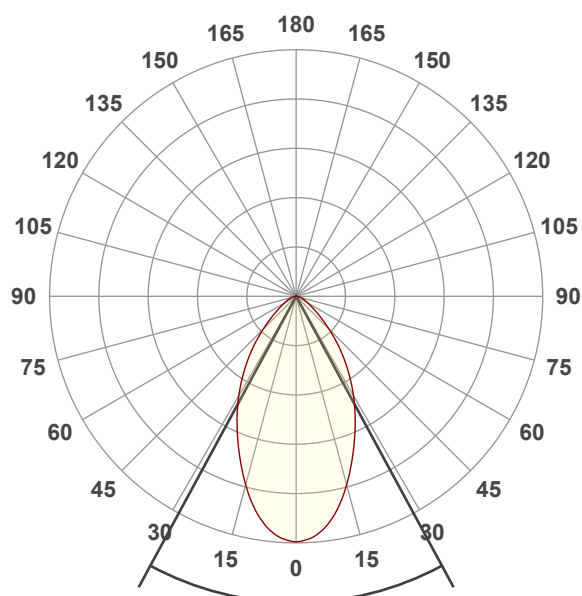
Warm White

Operator:

Salvatore Giglio

Date and time:

20/02/2024 09:14:55

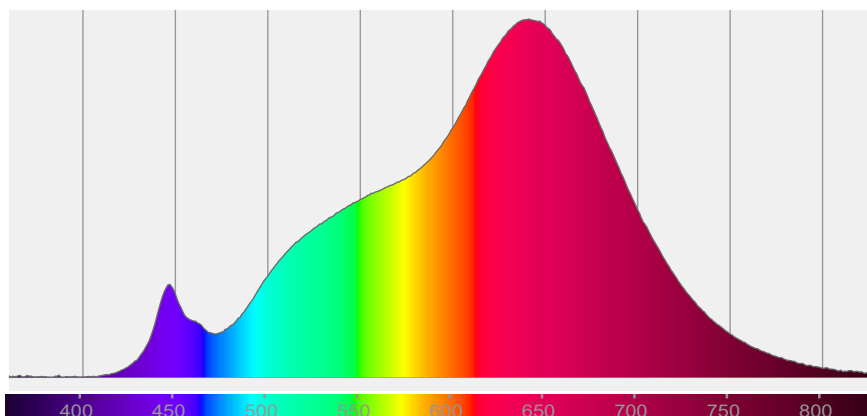


Beam angle 50%: 56,8°

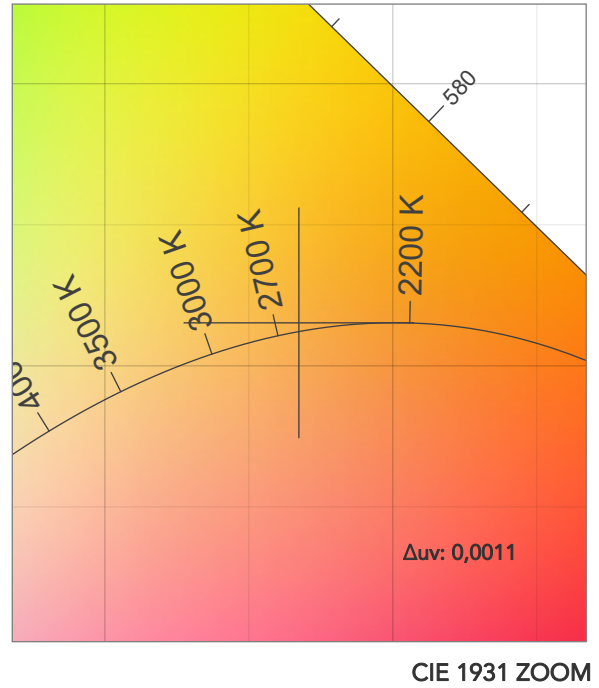
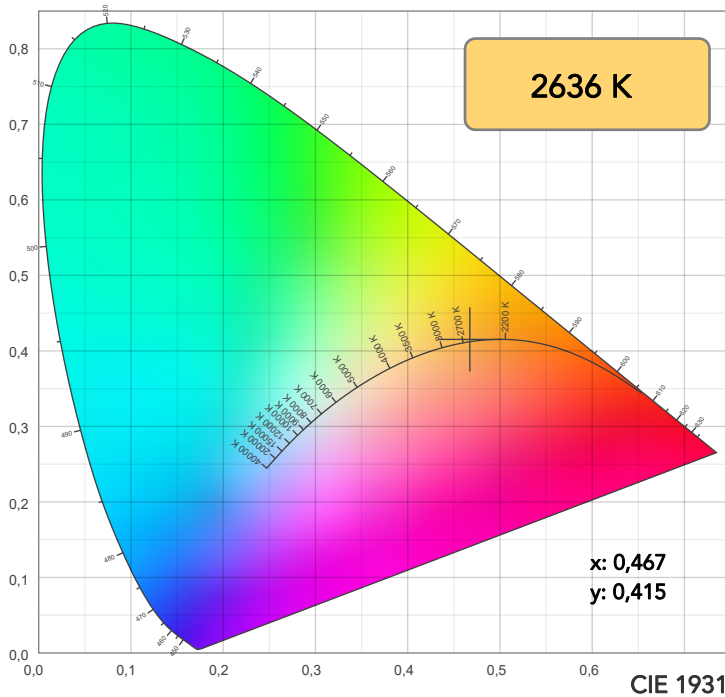
Field angle 10%: 105,5°

Cut off angle 2.5%: 142,7°

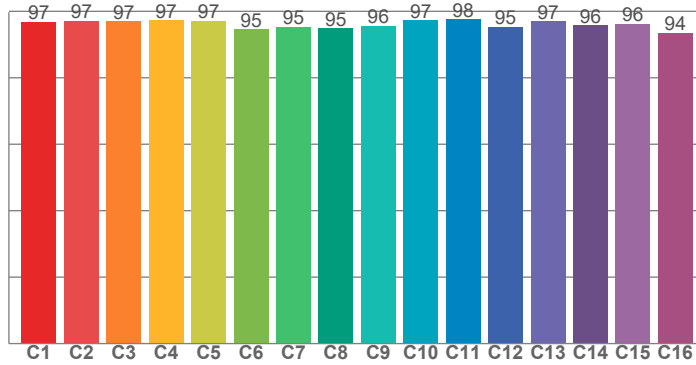
Spectra



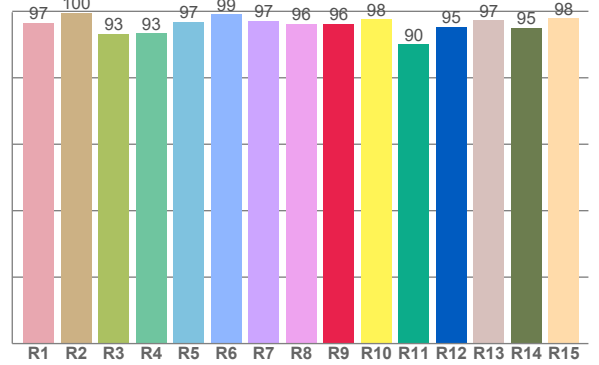
COLOR DETAILS



TM30: 96,3



CRI: 96,5 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,5 | 99,6 | 93,2 | 93,3 | 96,8 | 99,1 | 97,1 | 96,3 | 96,2 | 97,5 | 90,2 | 95,4 | 97,4 | 95,1 | 97,9 |

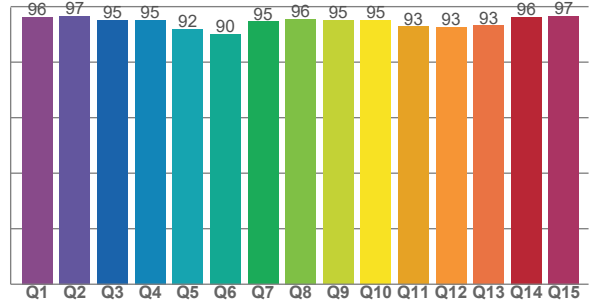
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,8 | 97,1 | 97,0 | 97,2 | 97,1 | 94,6 | 95,3 | 94,9 | 95,6 | 97,3 | 97,5 | 95,3 | 97,0 | 95,8 | 96,3 | 93,5 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,2 | 96,6 | 95,1 | 95,1 | 92,0 | 90,2 | 94,6 | 95,5 | 95,1 | 95,1 | 92,8 | 92,6 | 93,2 | 96,2 | 96,7 |

CQS: 93,9



COLOR PARAMETERS

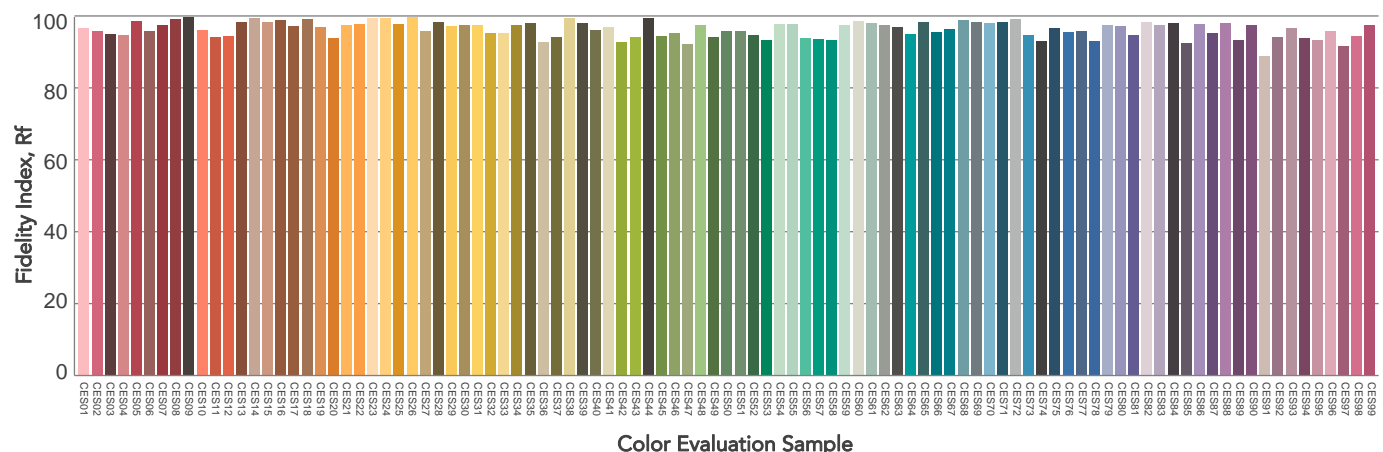
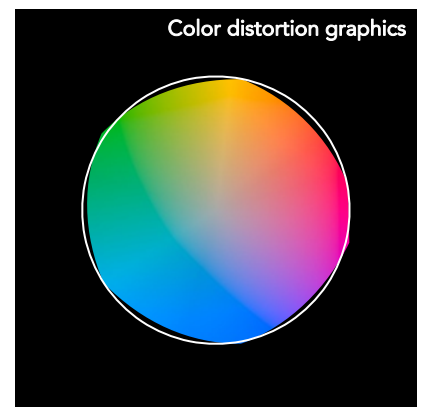
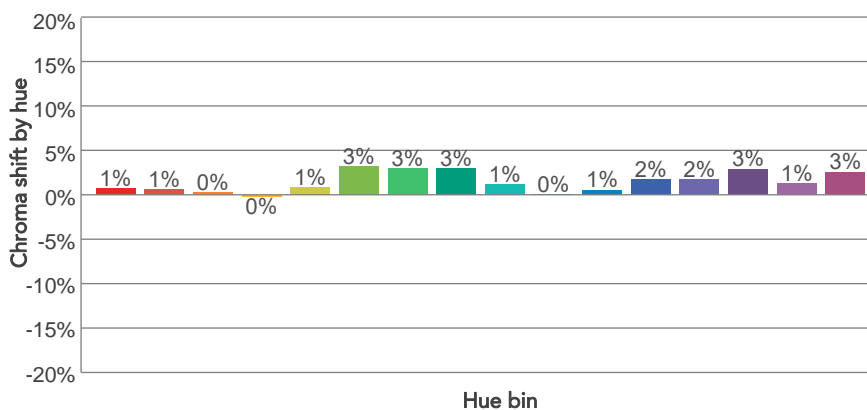
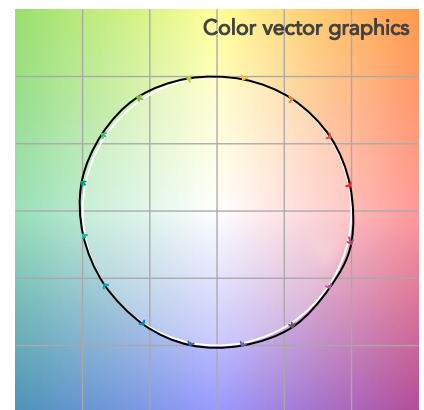
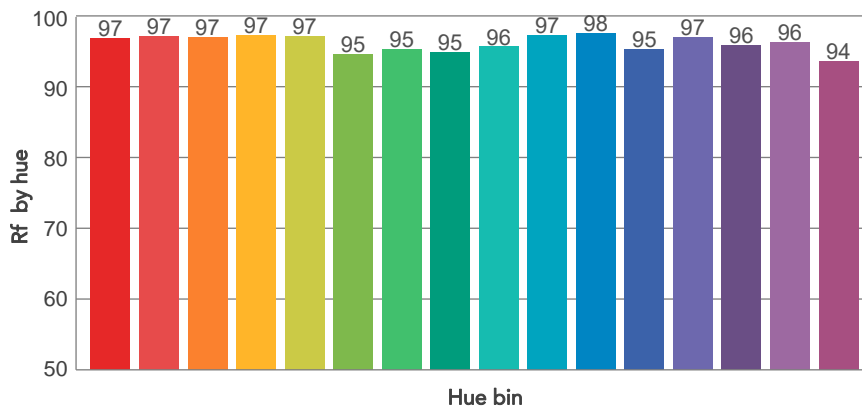
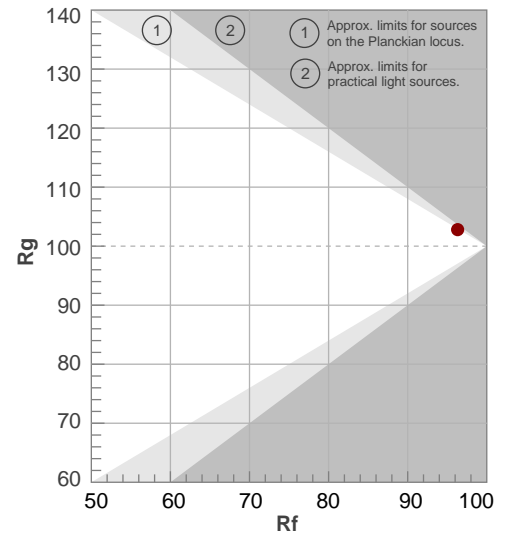
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 2636 K | 96,5 | 96,2 | 96,3 | 102,8 | 93,9 | 98 | 0,467 | 0,415 | 0,0011 |

TM30 DETAILS

Rf 96,3
Fidelity index Rf

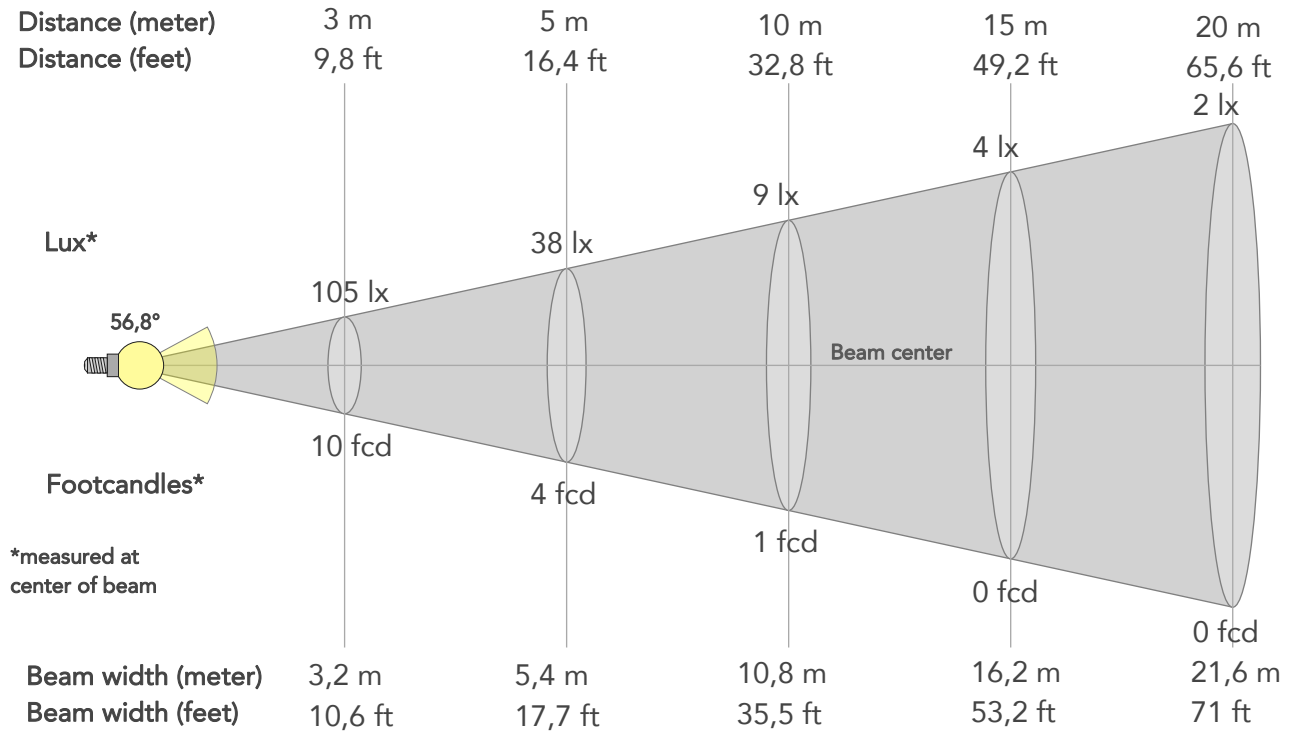
Rg 102,8
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 97 | 1% | -1% |
| 2 | 97 | 1% | -1% |
| 3 | 97 | 0% | 0% |
| 4 | 97 | 0% | 0% |
| 5 | 97 | 1% | 2% |
| 6 | 95 | 3% | 2% |
| 7 | 95 | 3% | 0% |
| 8 | 95 | 3% | -1% |
| 9 | 96 | 1% | -2% |
| 10 | 97 | 0% | -1% |
| 11 | 98 | 1% | 1% |
| 12 | 95 | 2% | 0% |
| 13 | 97 | 2% | -1% |
| 14 | 96 | 3% | -1% |
| 15 | 96 | 1% | -1% |
| 16 | 94 | 3% | -4% |



BEAM DETAILS

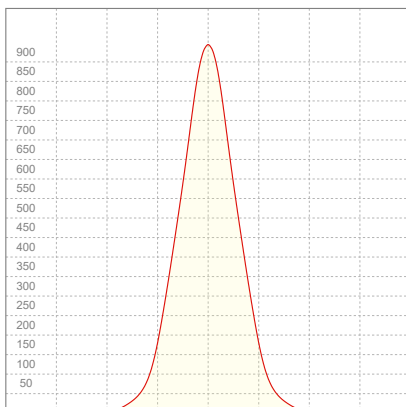
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 56,8° | 105,5° | 142,7° | 93,6% | 81,0% |



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 | 943lx | 236lx | 105lx | 59lx | 38lx | 17lx | 9lx | 4lx | 2lx | 2lx | 1lx | 1lx | 0lx |
| Footcand. | 88fcd | 22fcd | 10fcd | 5fcd | 4fcd | 2fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 1,1m | 2,2m | 3,2m | 4,3m | 5,4m | 8,1m | 10,8m | 16,2m | 21,6m | 27,1m | 32,5m | 43,3m | 54,1m |
| Beam wid. | 3,6ft | 7,1ft | 10,6ft | 14,2ft | 17,7ft | 26,6ft | 35,5ft | 53,2ft | 71ft | 88,7ft | 106,5ft | 142ft | 177,5ft |

LINEAR DISTRIBUTION DIAGRAM

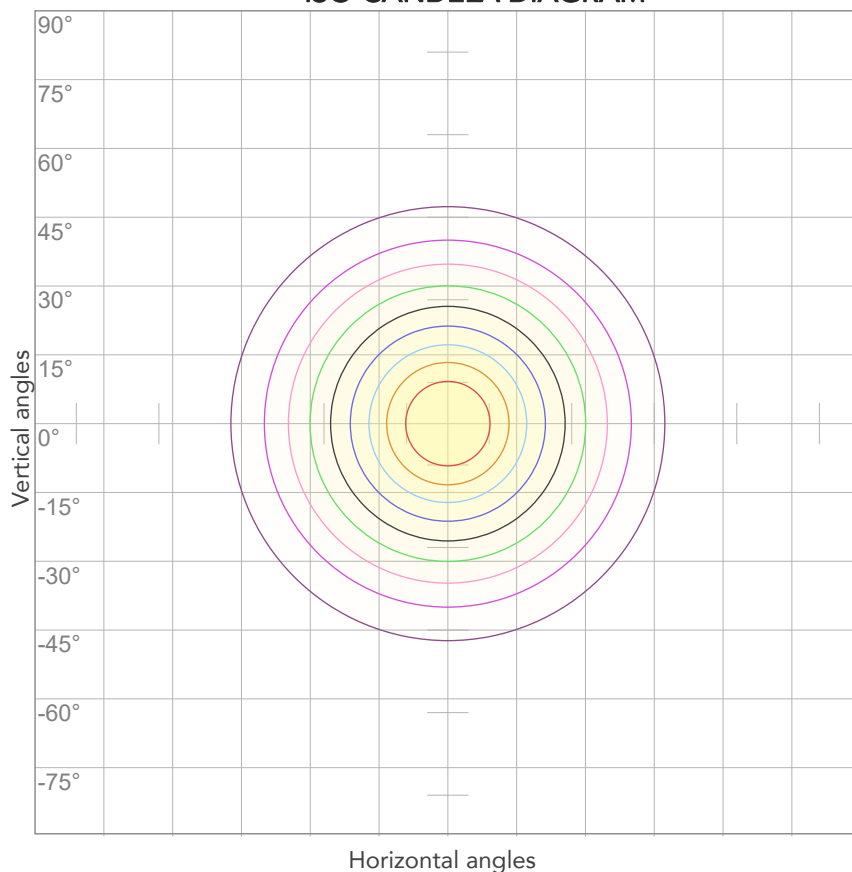


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Efficiency |
|---------------|---------------|-------------|----------|------------|
| 223V | 0,131A | 26,9W | 0,92 | 39lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



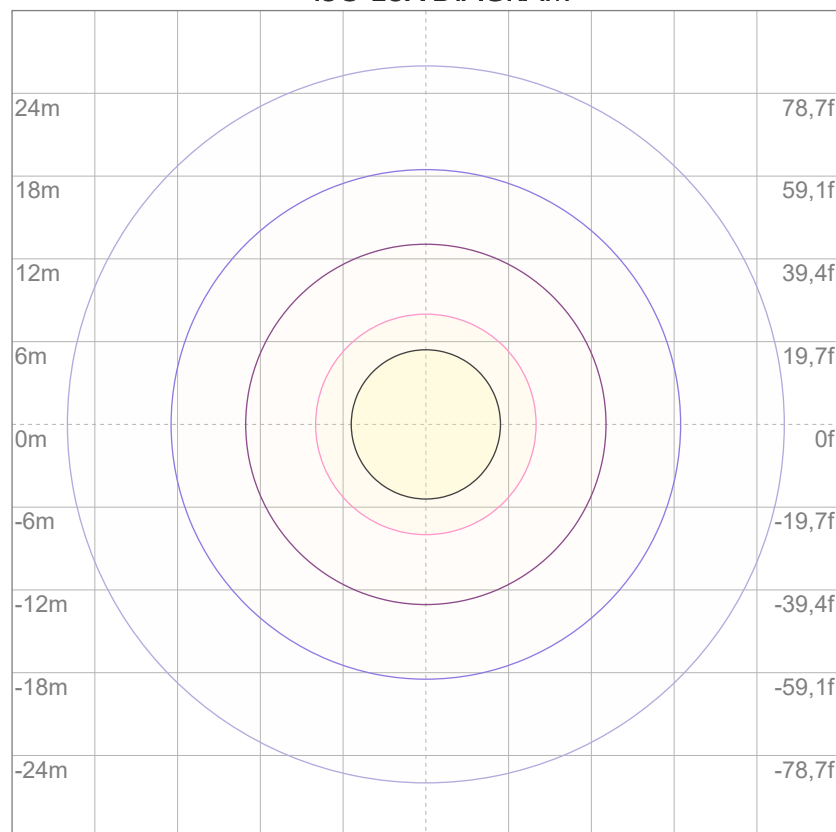
| | |
|-----|--------|
| 10% | 94 cd |
| 20% | 189 cd |
| 30% | 283 cd |
| 40% | 377 cd |
| 50% | 471 cd |
| 60% | 566 cd |
| 70% | 660 cd |
| 80% | 754 cd |

Conditions:

Number of c-planes: 2

Candela at center: 943 cd

ISO LUX DIAGRAM



| | |
|-----|----------|
| 3% | 0,283 lx |
| 5% | 0,471 lx |
| 10% | 0,943 lx |
| 30% | 2,83 lx |
| 50% | 4,71 lx |

Conditions:

Number of c-planes: 2

Lux at center: 9,43 lx

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



Total lumen output:

1559 lm

Peak candela output:

3184 cd

Light quality:

CRI: 96,6

Color temperature:

2598 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 10°x 60° Filter

Target:

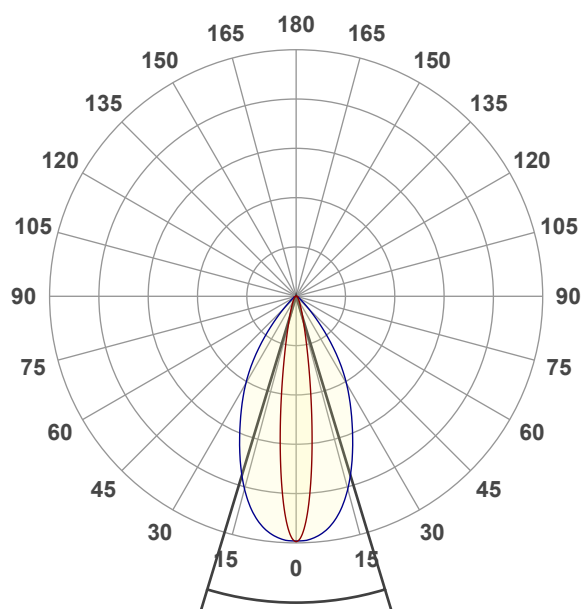
Warm White

Operator:

Salvatore Giglio

Date and time:

20/02/2024 11:18:26

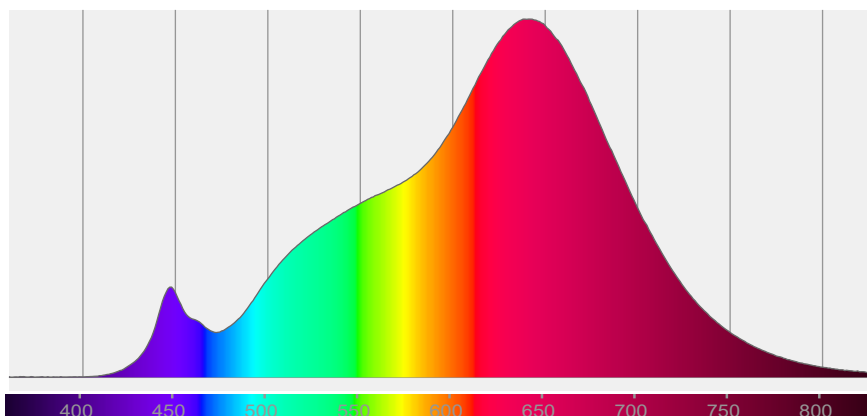


Beam angle 50%: 33,7°

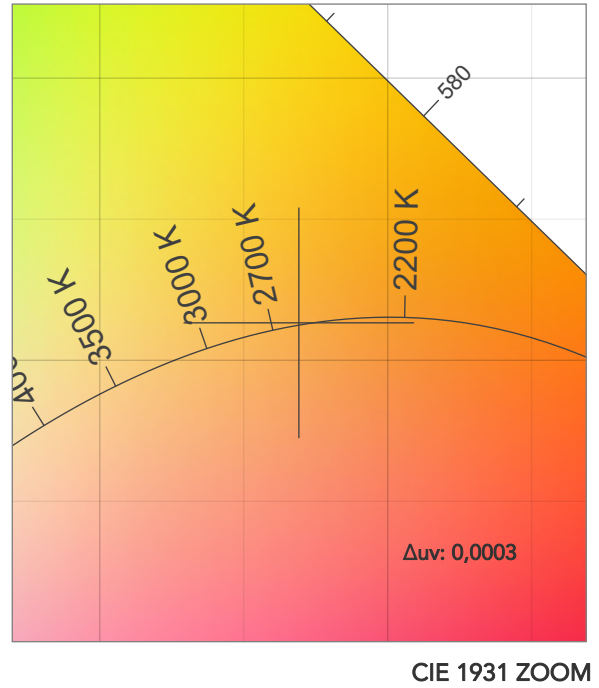
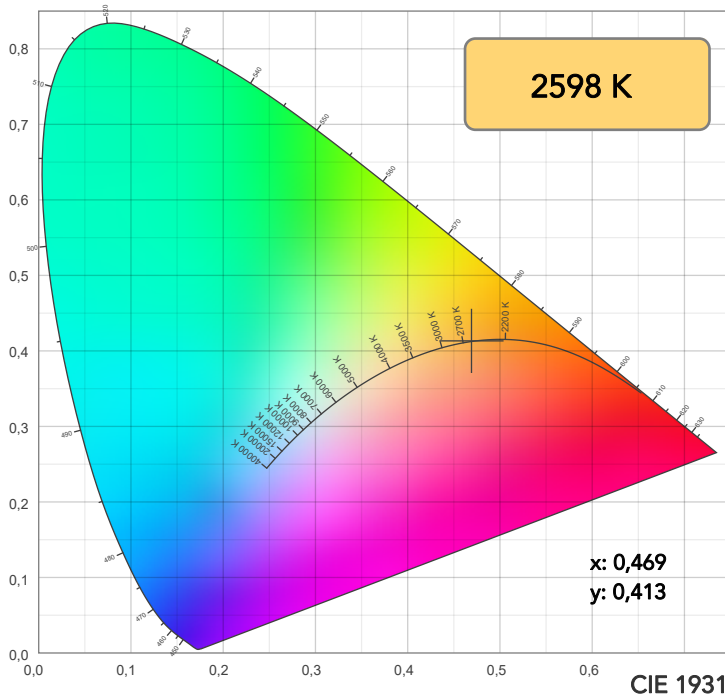
Field angle 10%: 59,7°

Cut off angle 2.5%: 84,1°

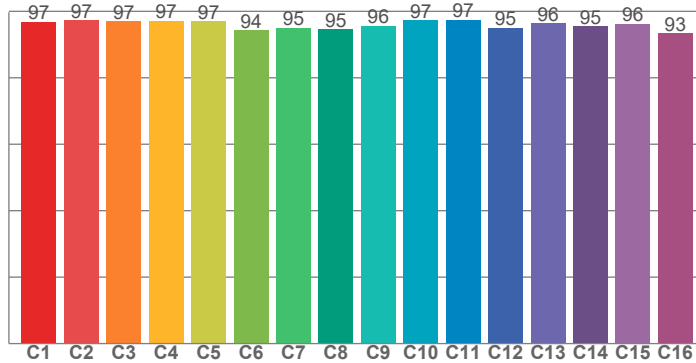
Spectra



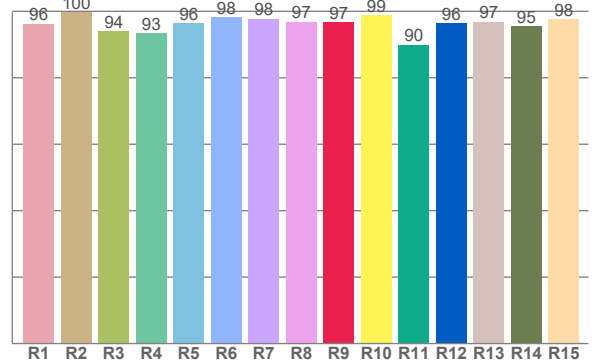
COLOR DETAILS



TM30: 96,2



CRI: 96,6 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,2 | 99,7 | 94,0 | 93,4 | 96,4 | 98,2 | 97,8 | 96,9 | 96,8 | 98,8 | 89,9 | 96,3 | 96,9 | 95,4 | 97,7 |

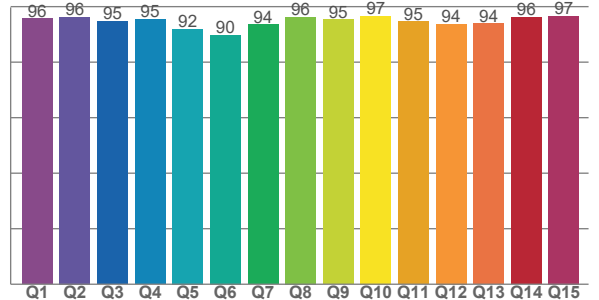
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,9 | 97,2 | 97,0 | 97,2 | 97,0 | 94,3 | 95,0 | 94,5 | 95,5 | 97,2 | 97,5 | 95,0 | 96,4 | 95,5 | 96,2 | 93,4 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,7 | 96,2 | 94,7 | 95,4 | 92,0 | 89,8 | 93,5 | 96,3 | 95,3 | 96,6 | 94,6 | 93,8 | 93,9 | 96,2 | 96,5 |

CQS: 94,1



COLOR PARAMETERS

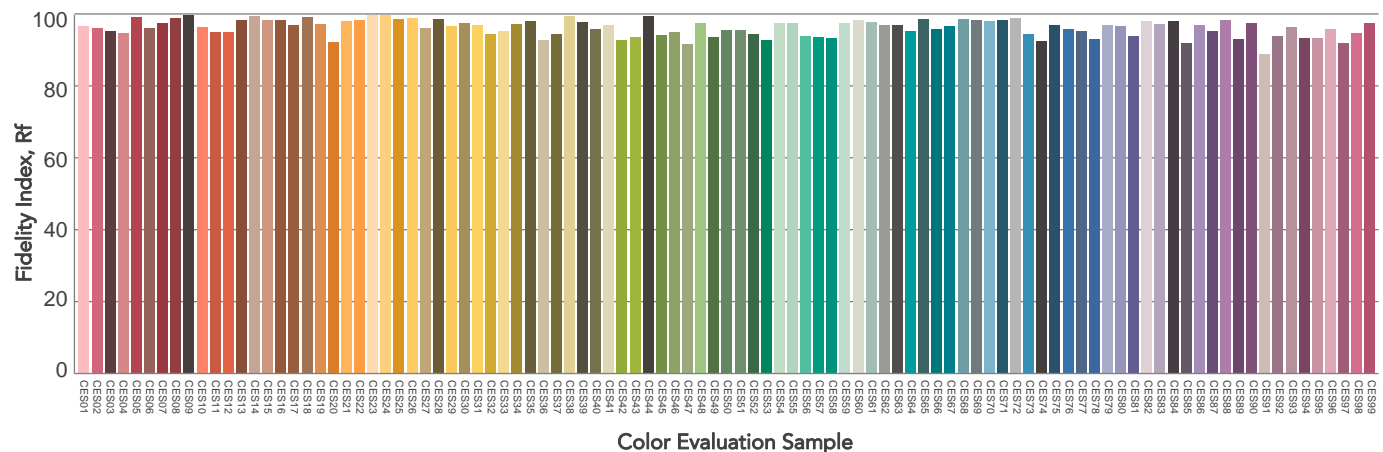
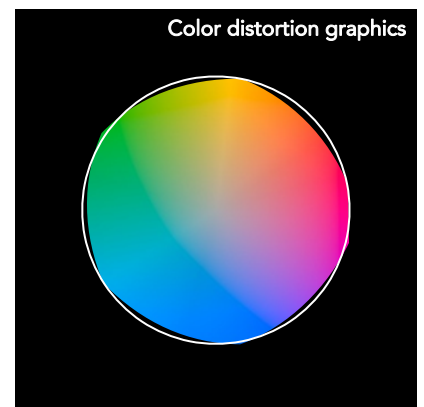
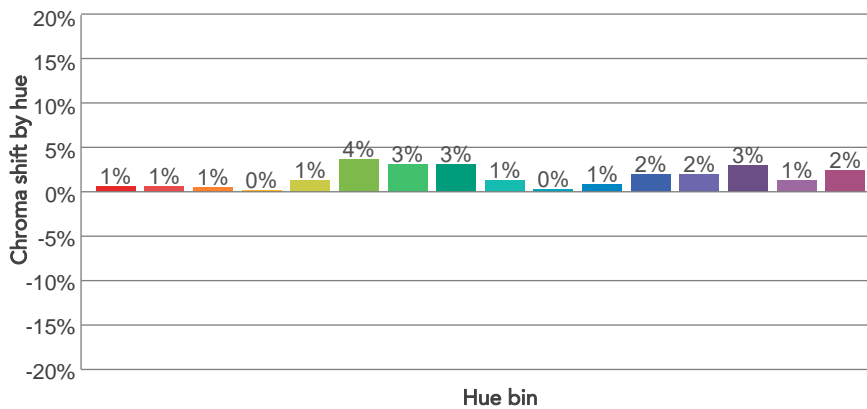
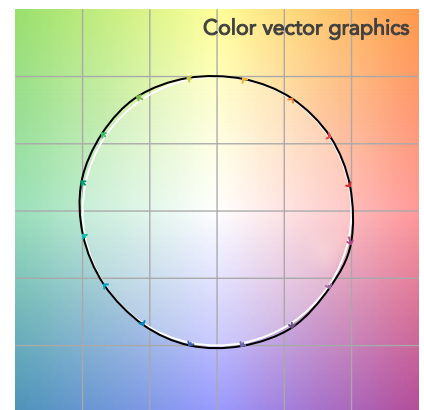
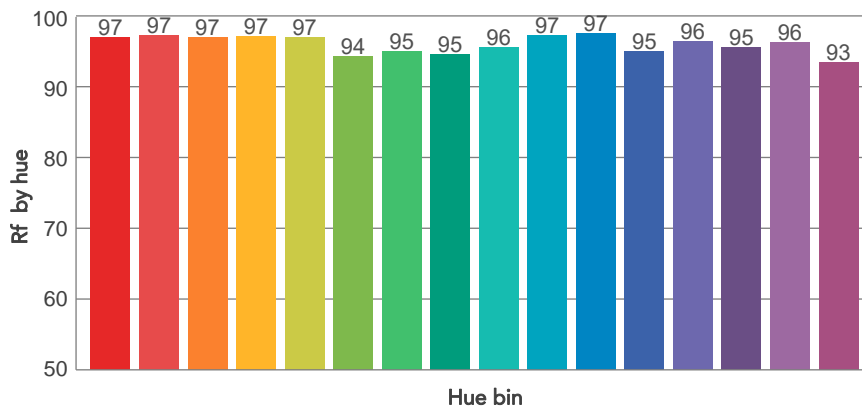
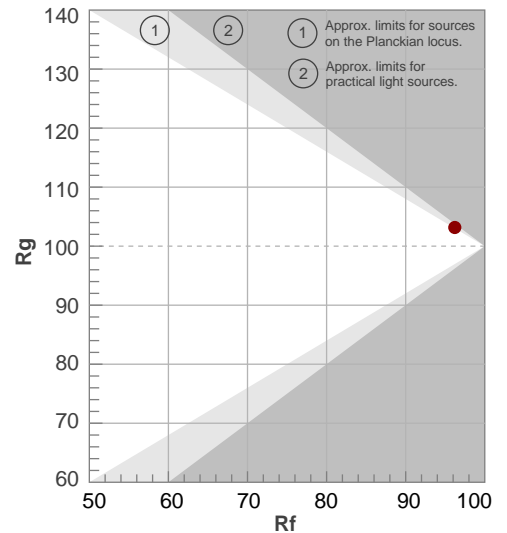
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 2598 K | 96,6 | 96,8 | 96,2 | 103,2 | 94,1 | 98 | 0,469 | 0,413 | 0,0003 |

TM30 DETAILS

Rf 96,2
Fidelity index Rf

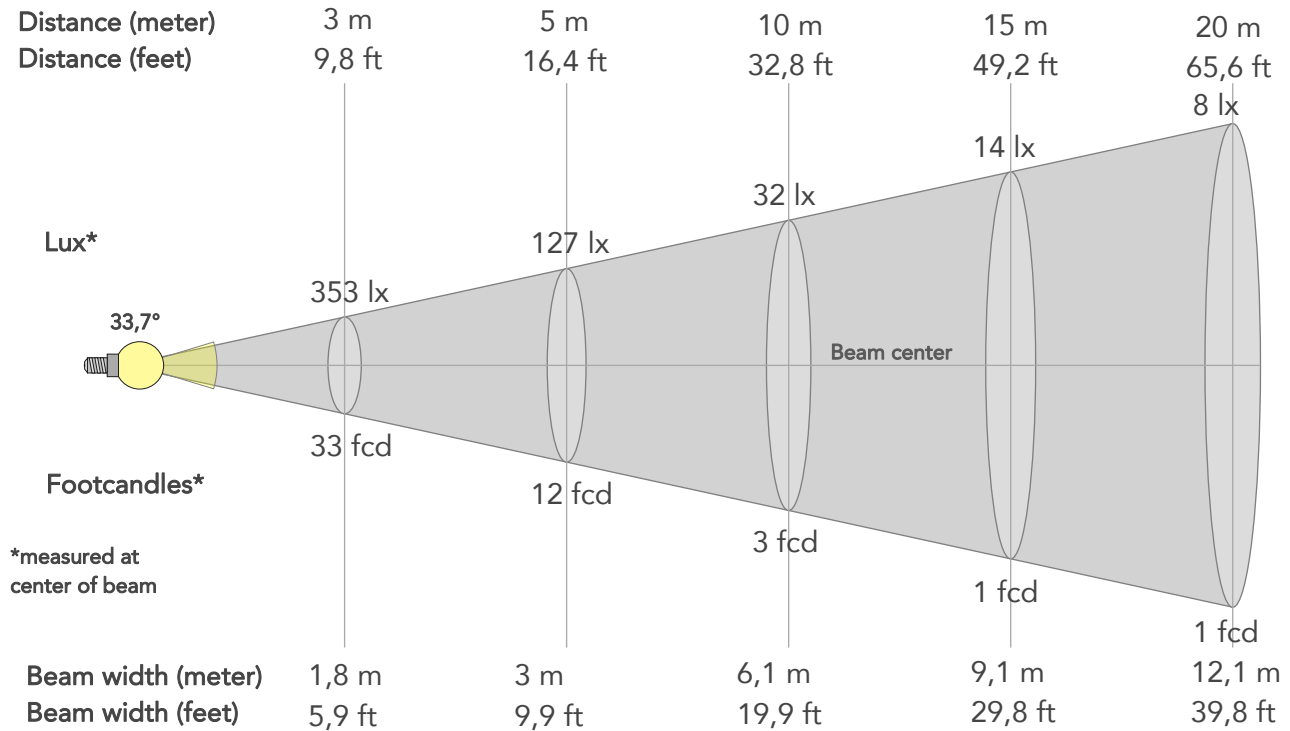
Rg 103,2
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 97 | 1% | -1% |
| 2 | 97 | 1% | -1% |
| 3 | 97 | 1% | 0% |
| 4 | 97 | 0% | 0% |
| 5 | 97 | 1% | 2% |
| 6 | 94 | 4% | 2% |
| 7 | 95 | 3% | 0% |
| 8 | 95 | 3% | -2% |
| 9 | 96 | 1% | -2% |
| 10 | 97 | 0% | -1% |
| 11 | 97 | 1% | 1% |
| 12 | 95 | 2% | -1% |
| 13 | 96 | 2% | -2% |
| 14 | 95 | 3% | -2% |
| 15 | 96 | 1% | -1% |
| 16 | 93 | 2% | -5% |



BEAM DETAILS

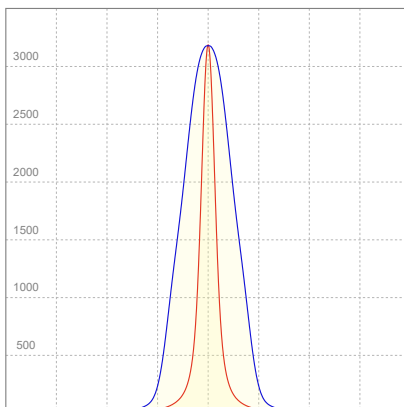
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 33,7° | 59,7° | 84,1° | 97,4% | 92,3% |



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 | 3180lx | 795lx | 353lx | 199lx | 127lx | 57lx | 32lx | 14lx | 8lx | 5lx | 4lx | 2lx | 1lx |
| Footcand. | 295fcd | 74fcd | 33fcd | 18fcd | 12fcd | 5fcd | 3fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,6m | 1,2m | 1,8m | 2,4m | 3m | 4,5m | 6,1m | 9,1m | 12,1m | 15,2m | 18,2m | 24,3m | 30,3m |
| Beam wid. | 2ft | 4ft | 5,9ft | 7,9ft | 9,9ft | 14,9ft | 19,9ft | 29,8ft | 39,8ft | 49,7ft | 59,7ft | 79,5ft | 99,4ft |

LINEAR DISTRIBUTION DIAGRAM

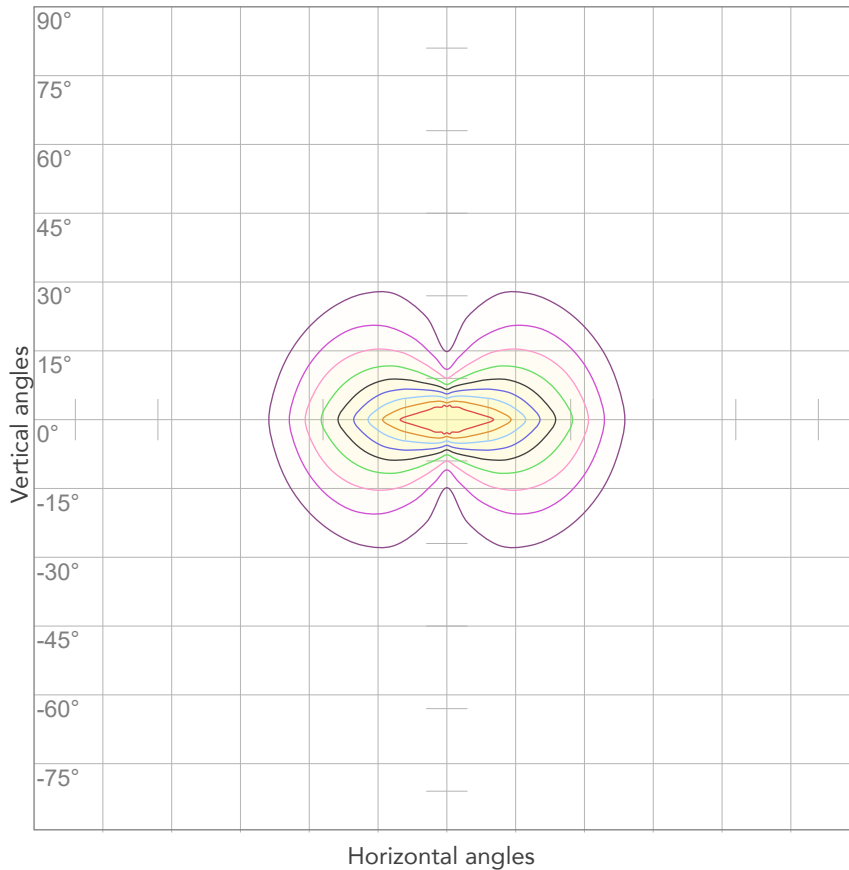


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Efficiency |
|---------------|---------------|-------------|----------|------------|
| 225V | 0,125A | 26,3W | 0,93 | 59lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



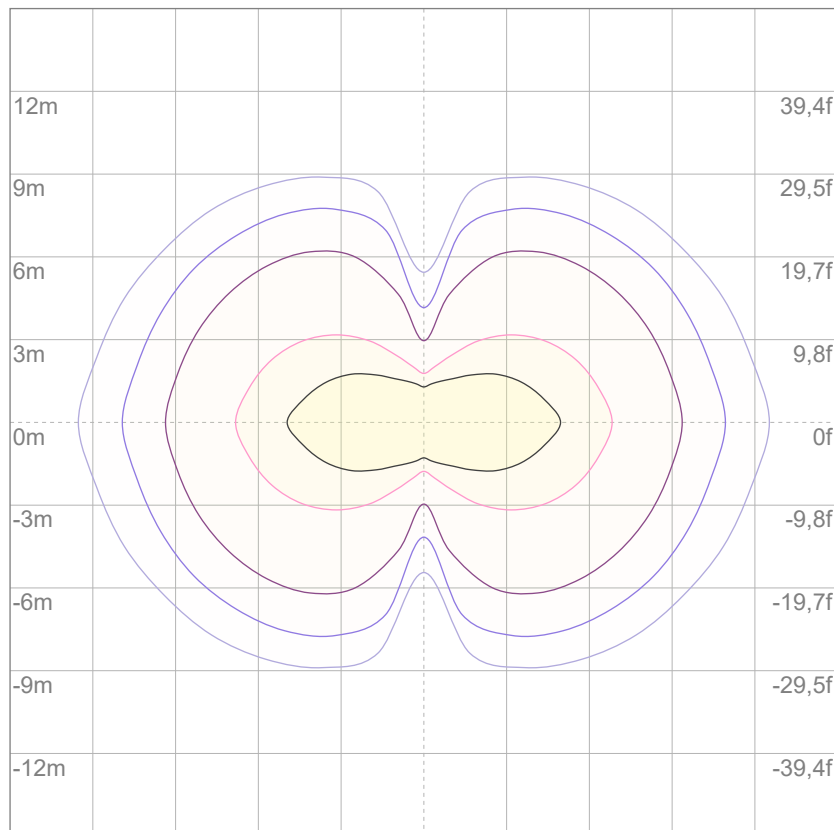
| | |
|-----|---------|
| 10% | 318 cd |
| 20% | 636 cd |
| 30% | 954 cd |
| 40% | 1272 cd |
| 50% | 1590 cd |
| 60% | 1908 cd |
| 70% | 2226 cd |
| 80% | 2544 cd |

Conditions:

Number of c-planes: 4

Candela at center: 3180 cd

ISO LUX DIAGRAM



| | |
|-----|----------|
| 3% | 0,954 lx |
| 5% | 1,59 lx |
| 10% | 3,18 lx |
| 30% | 9,54 lx |
| 50% | 15,9 lx |

Conditions:

Number of c-planes: 4

Lux at center: 31,8 lx

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



Total lumen output:

975 lm

Peak candela output:

1605 cd

Light quality:

CRI: 96,6

Color temperature:

2615 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 30°x 60° Filter

Target:

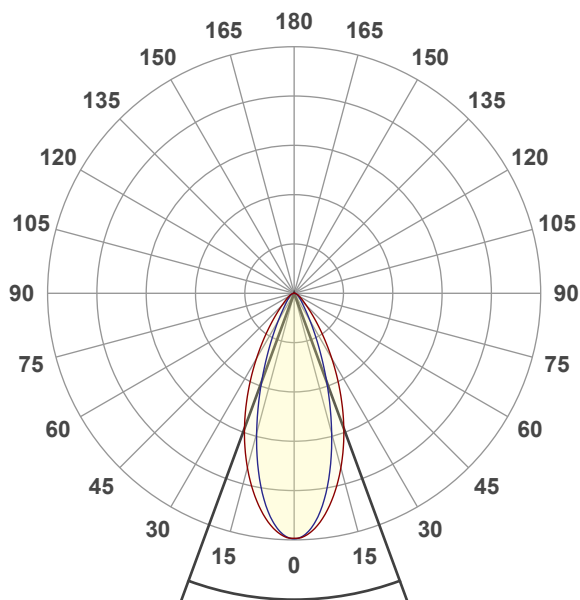
Warm White

Operator:

Salvatore Giglio

Date and time:

20/02/2024 11:40:54

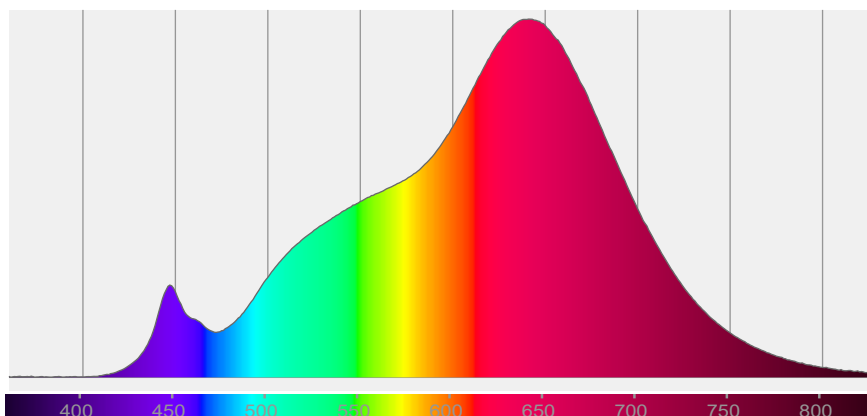


Beam angle 50%: 40,4°

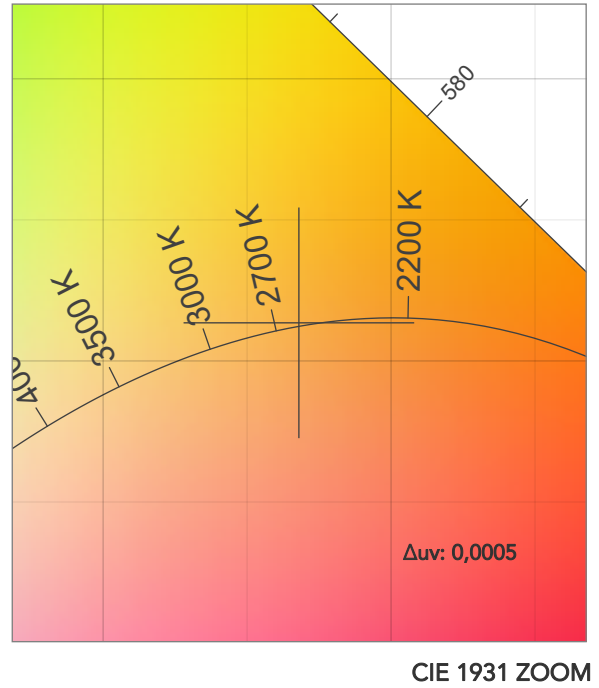
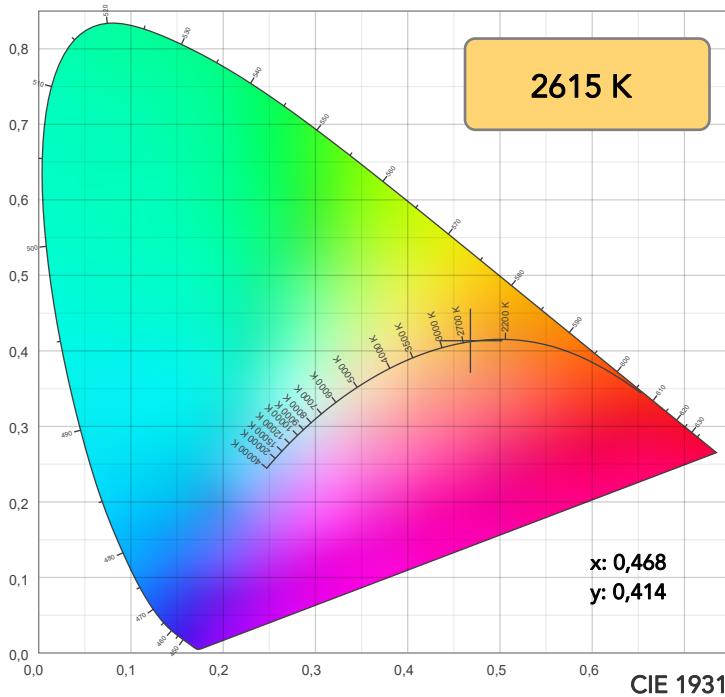
Field angle 10%: 73,9°

Cut off angle 2.5%: 111,8°

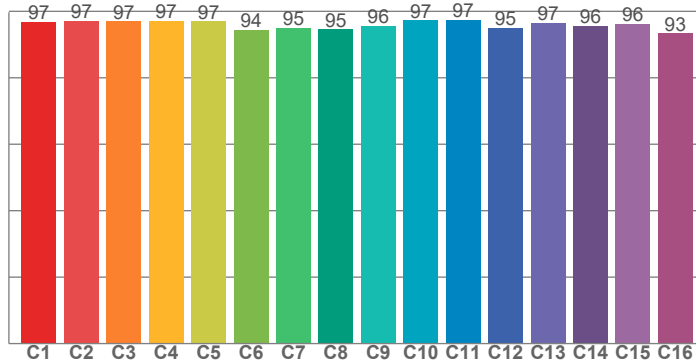
Spectra



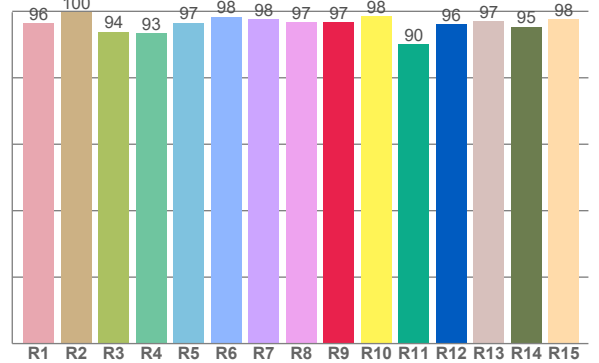
COLOR DETAILS



TM30: 96,2



CRI: 96,6 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,3 | 99,8 | 93,8 | 93,4 | 96,5 | 98,4 | 97,6 | 96,7 | 96,6 | 98,5 | 90,0 | 96,1 | 97,0 | 95,4 | 97,7 |

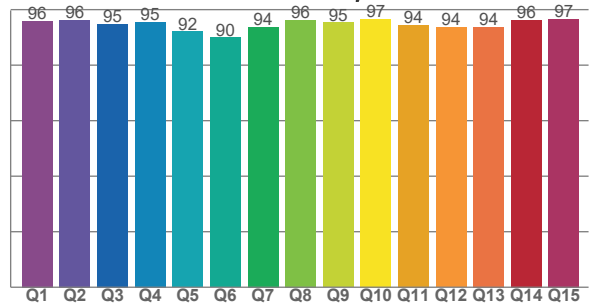
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,9 | 97,2 | 97,0 | 97,2 | 97,0 | 94,4 | 95,1 | 94,6 | 95,6 | 97,3 | 97,5 | 95,1 | 96,6 | 95,6 | 96,2 | 93,4 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,8 | 96,3 | 94,8 | 95,5 | 92,1 | 90,0 | 93,8 | 96,2 | 95,4 | 96,7 | 94,4 | 93,7 | 93,8 | 96,3 | 96,6 |

CQS: 94,2



COLOR PARAMETERS

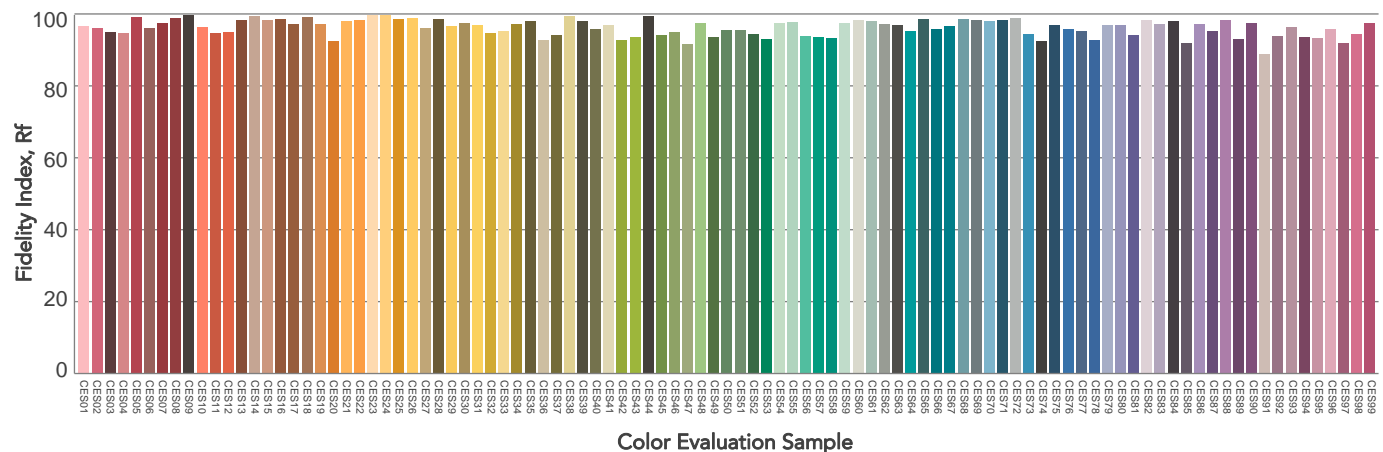
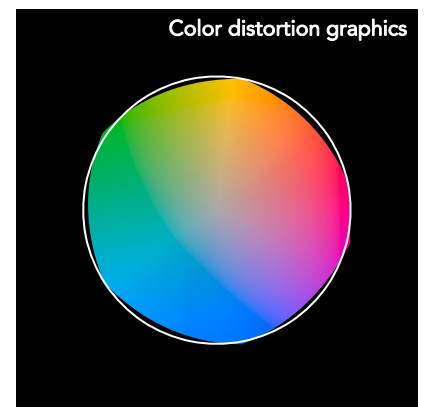
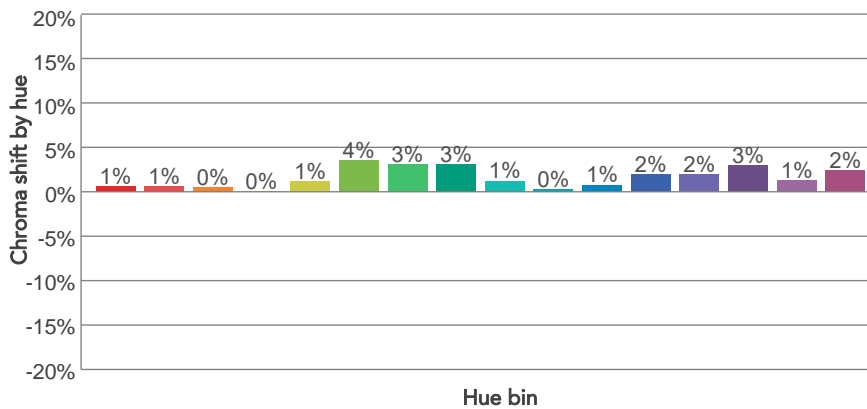
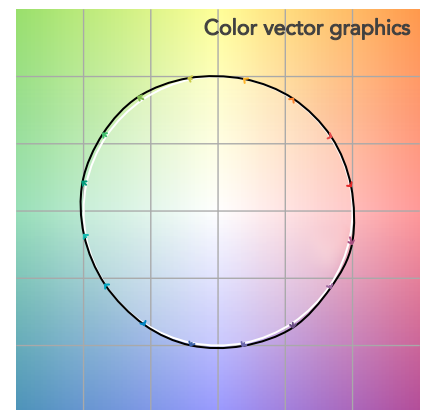
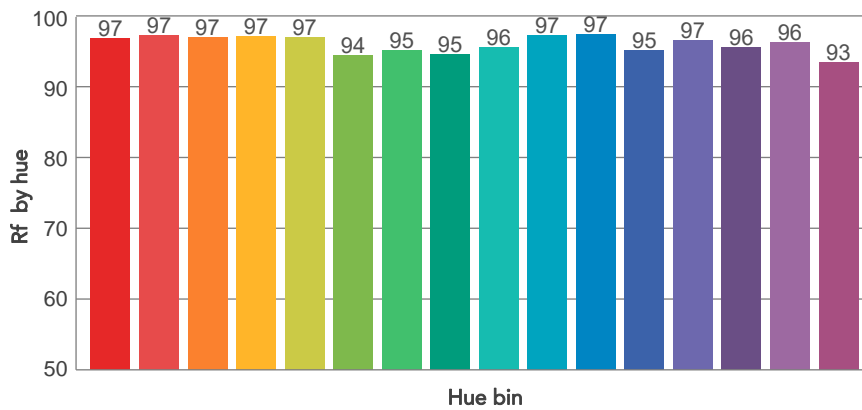
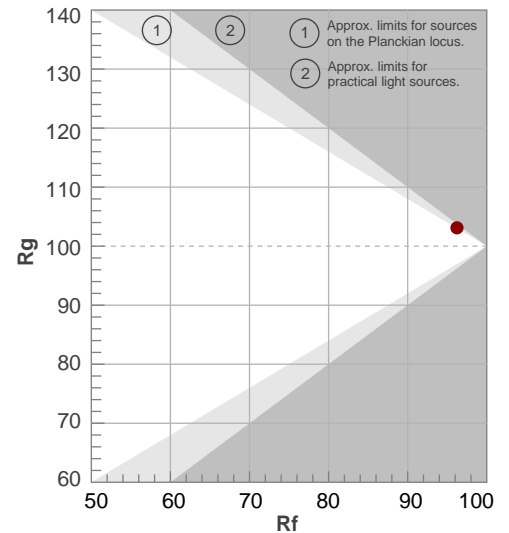
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 2615 K | 96,6 | 96,6 | 96,2 | 103,1 | 94,2 | 98 | 0,468 | 0,414 | 0,0005 |

TM30 DETAILS

Rf 96,2
Fidelity index Rf

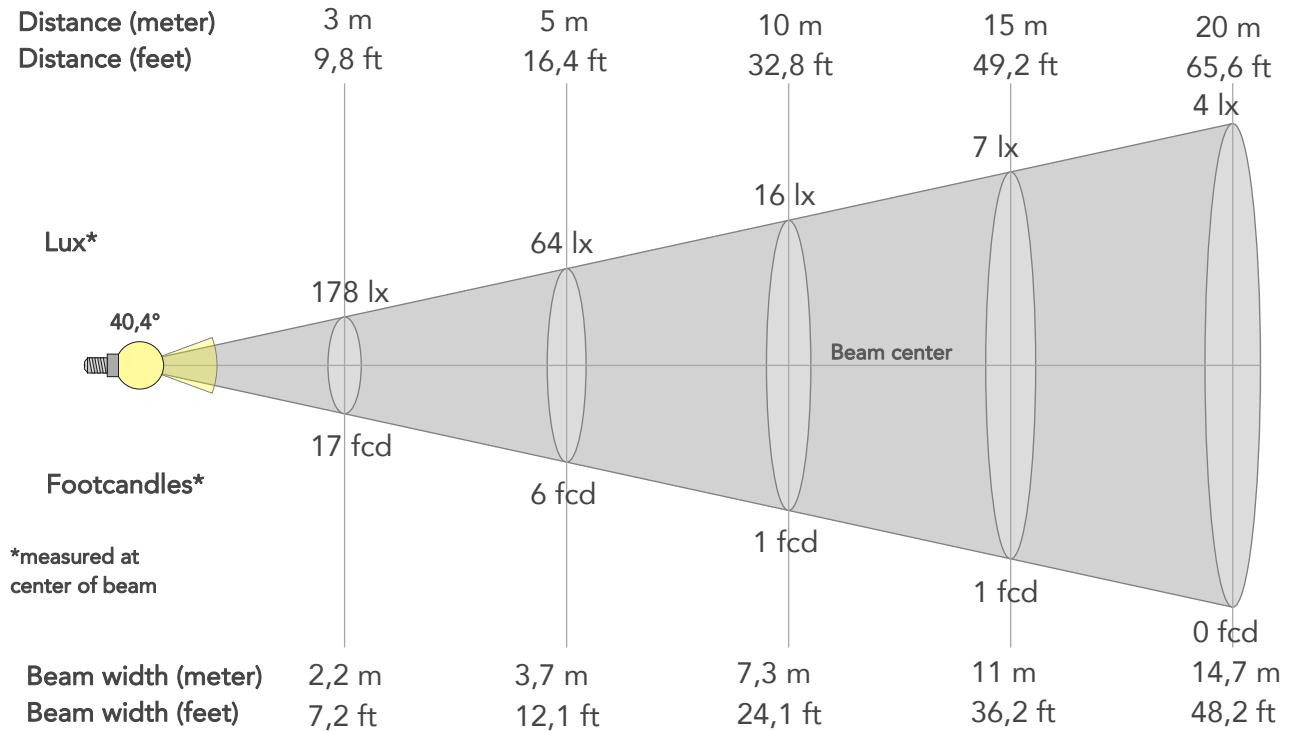
Rg 103,1
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 97 | 1% | -1% |
| 2 | 97 | 1% | -1% |
| 3 | 97 | 0% | 0% |
| 4 | 97 | 0% | 0% |
| 5 | 97 | 1% | 2% |
| 6 | 94 | 4% | 2% |
| 7 | 95 | 3% | 0% |
| 8 | 95 | 3% | -2% |
| 9 | 96 | 1% | -2% |
| 10 | 97 | 0% | -1% |
| 11 | 97 | 1% | 1% |
| 12 | 95 | 2% | 0% |
| 13 | 97 | 2% | -2% |
| 14 | 96 | 3% | -2% |
| 15 | 96 | 1% | -1% |
| 16 | 93 | 2% | -5% |



BEAM DETAILS

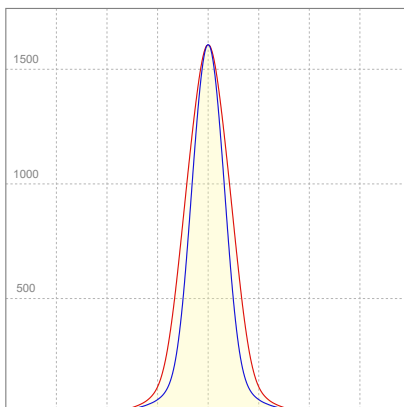
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 40,4° | 73,9° | 111,8° | 95,4% | 88,3% |



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 | 1604lx | 401lx | 178lx | 100lx | 64lx | 29lx | 16lx | 7lx | 4lx | 3lx | 2lx | 1lx | 1lx |
| Footcand. | 149fcd | 37fcd | 17fcd | 9fcd | 6fcd | 3fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,7m | 1,5m | 2,2m | 2,9m | 3,7m | 5,5m | 7,3m | 11m | 14,7m | 18,4m | 22m | 29,4m | 36,7m |
| Beam wid. | 2,4ft | 4,9ft | 7,2ft | 9,6ft | 12,1ft | 18,1ft | 24,1ft | 36,2ft | 48,2ft | 60,3ft | 72,3ft | 96,4ft | 120,5ft |

LINEAR DISTRIBUTION DIAGRAM

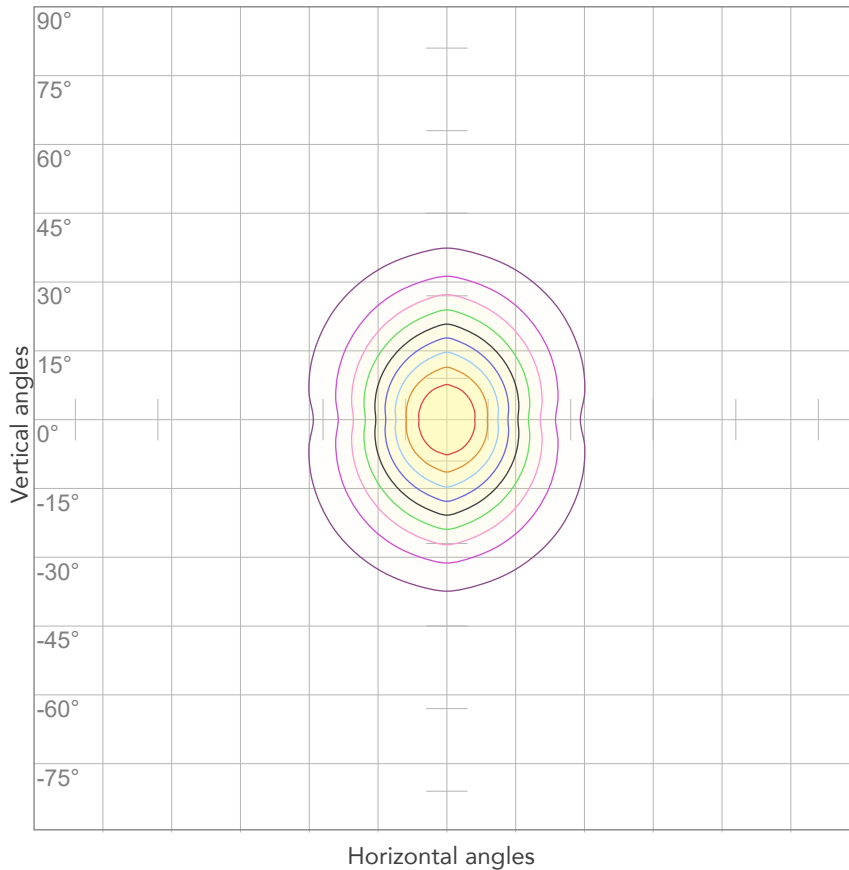


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Effeciency |
|---------------|---------------|-------------|----------|------------|
| 225V | 0,126A | 26,5W | 0,94 | 37lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



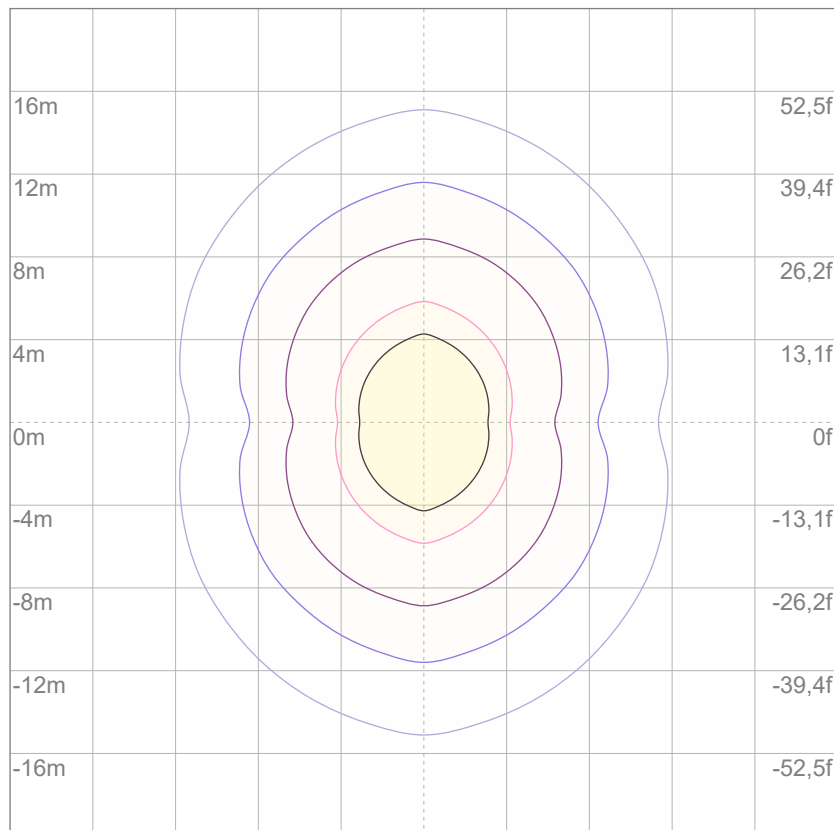
| | |
|-----|---------|
| 10% | 160 cd |
| 20% | 321 cd |
| 30% | 481 cd |
| 40% | 642 cd |
| 50% | 802 cd |
| 60% | 962 cd |
| 70% | 1123 cd |
| 80% | 1283 cd |

Conditions:

Number of c-planes: 4

Candela at center: 1604 cd

ISO LUX DIAGRAM



| | |
|-----|----------|
| 3% | 0,481 lx |
| 5% | 0,802 lx |
| 10% | 1,60 lx |
| 30% | 4,81 lx |
| 50% | 8,02 lx |

Conditions:

Number of c-planes: 4

Lux at center: 16,0 lx

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



Total lumen output:

1657 lm

Peak candela output:

33004 cd

Light quality:

CRI: 92,9

Color temperature:

6650 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10°

Target:

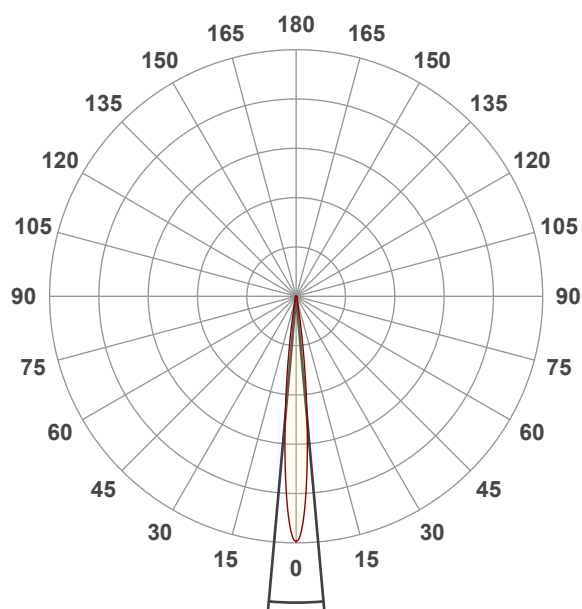
Cold White

Operator:

Salvatore Giglio

Date and time:

19/02/2024 16:15:20

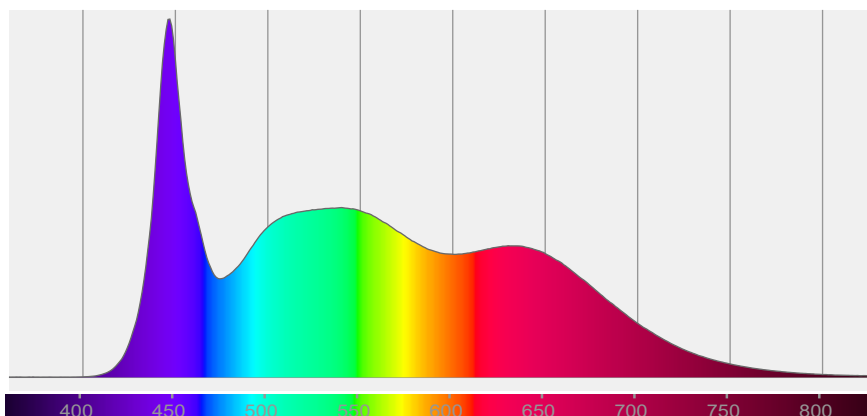


Beam angle 50%: 10,2°

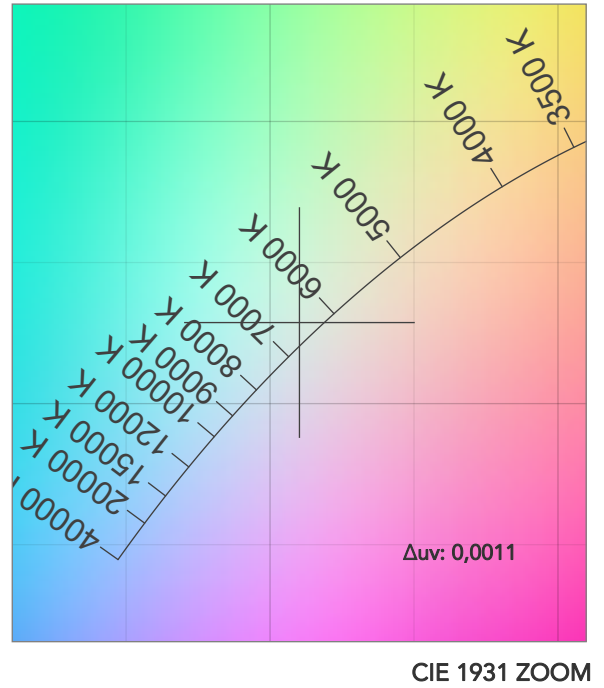
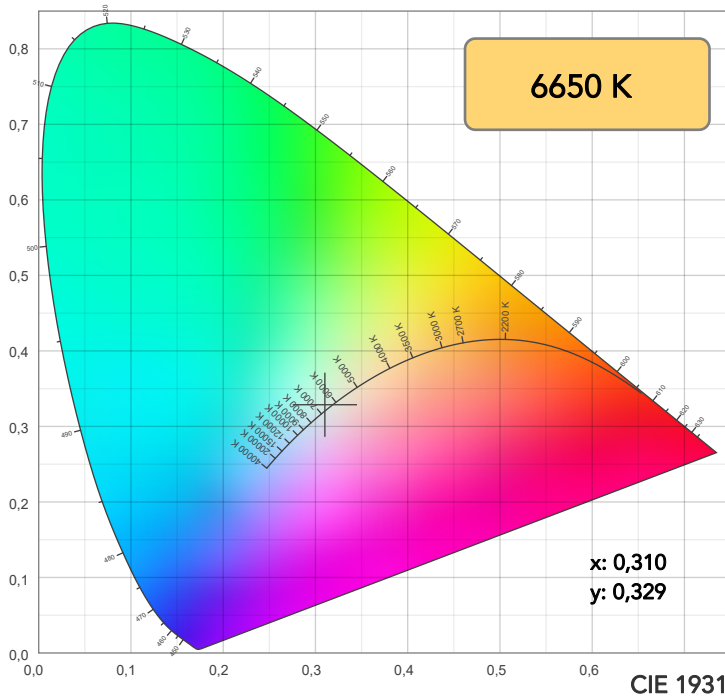
Field angle 10%: 18,6°

Cut off angle 2.5%: 27,6°

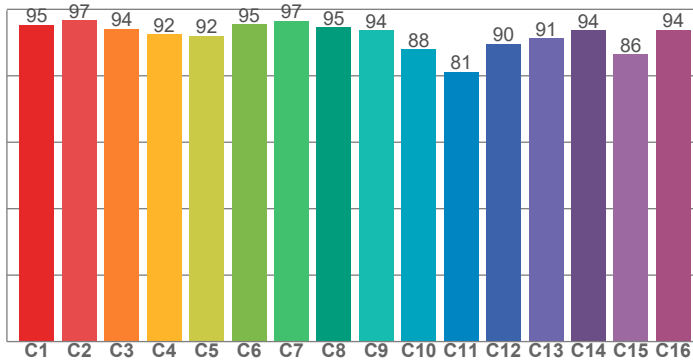
Spectra



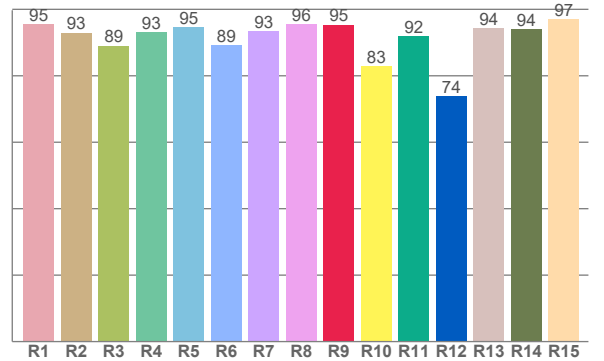
COLOR DETAILS



TM30: 92,1



CRI: 92,9 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,4 | 92,9 | 89,1 | 93,0 | 94,6 | 89,1 | 93,4 | 95,6 | 95,3 | 82,9 | 91,9 | 73,9 | 94,4 | 94,1 | 96,9 |

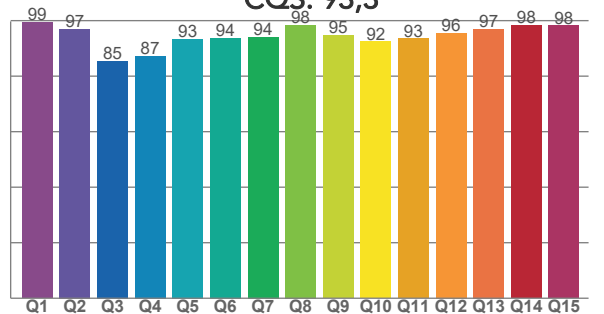
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,3 | 96,7 | 94,2 | 92,4 | 92,0 | 95,5 | 96,6 | 94,6 | 93,6 | 87,9 | 81,2 | 89,5 | 91,3 | 93,6 | 86,4 | 93,8 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 99,4 | 96,9 | 85,5 | 87,3 | 93,4 | 93,7 | 94,0 | 98,4 | 94,7 | 92,4 | 93,5 | 95,5 | 97,0 | 98,3 | 98,2 |

CQS: 93,3



COLOR PARAMETERS

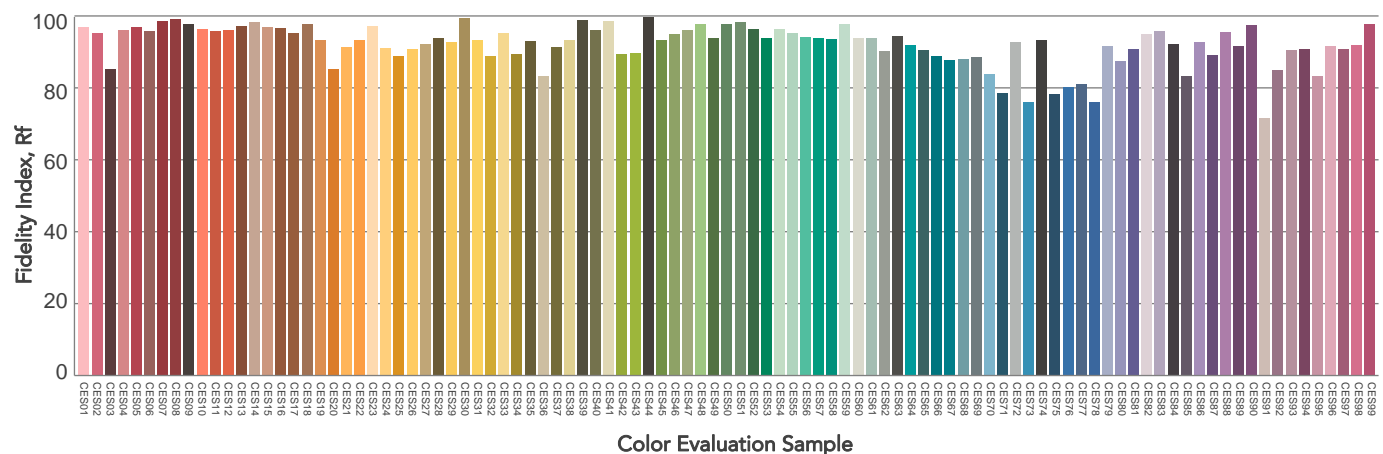
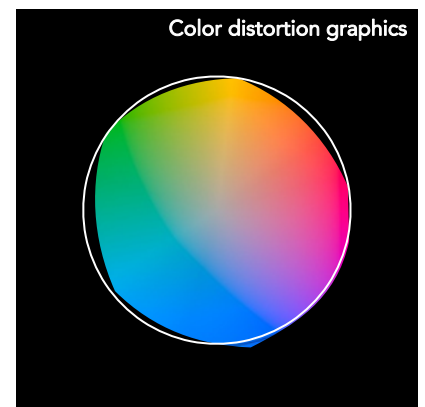
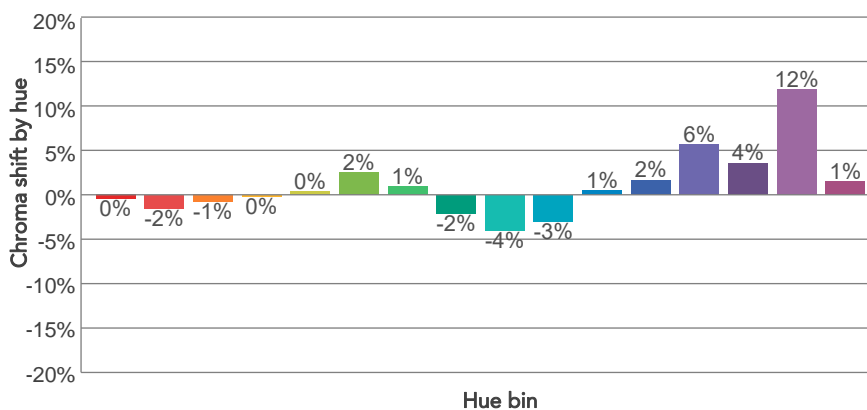
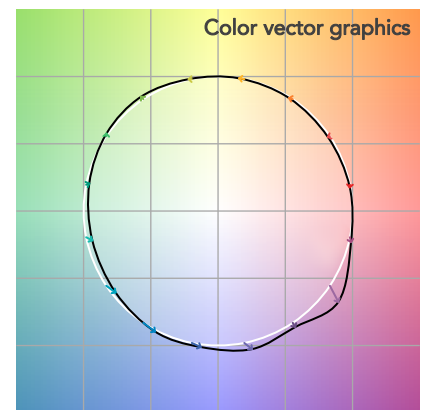
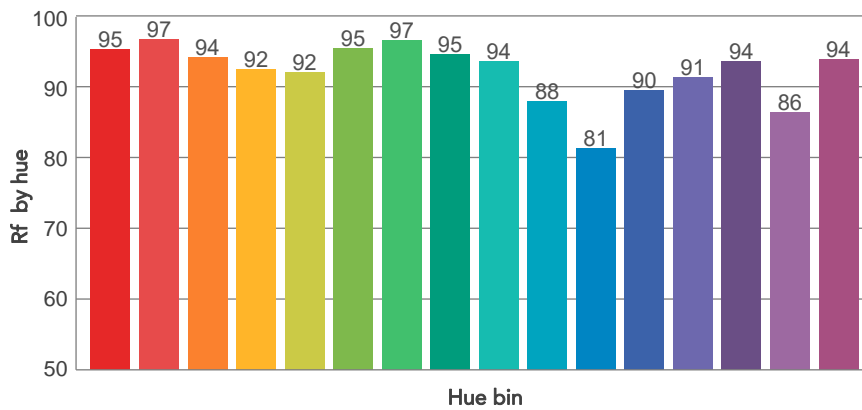
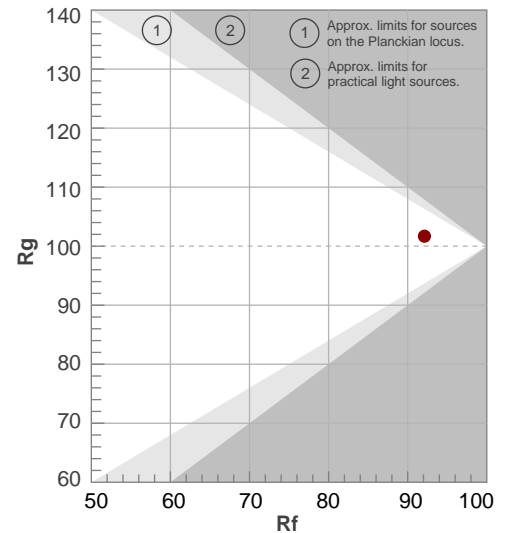
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 6650 K | 92,9 | 95,3 | 92,1 | 101,7 | 93,3 | 98 | 0,310 | 0,329 | 0,0011 |

TM30 DETAILS

Rf 92,1
Fidelity index Rf

Rg 101,7
Gammut index

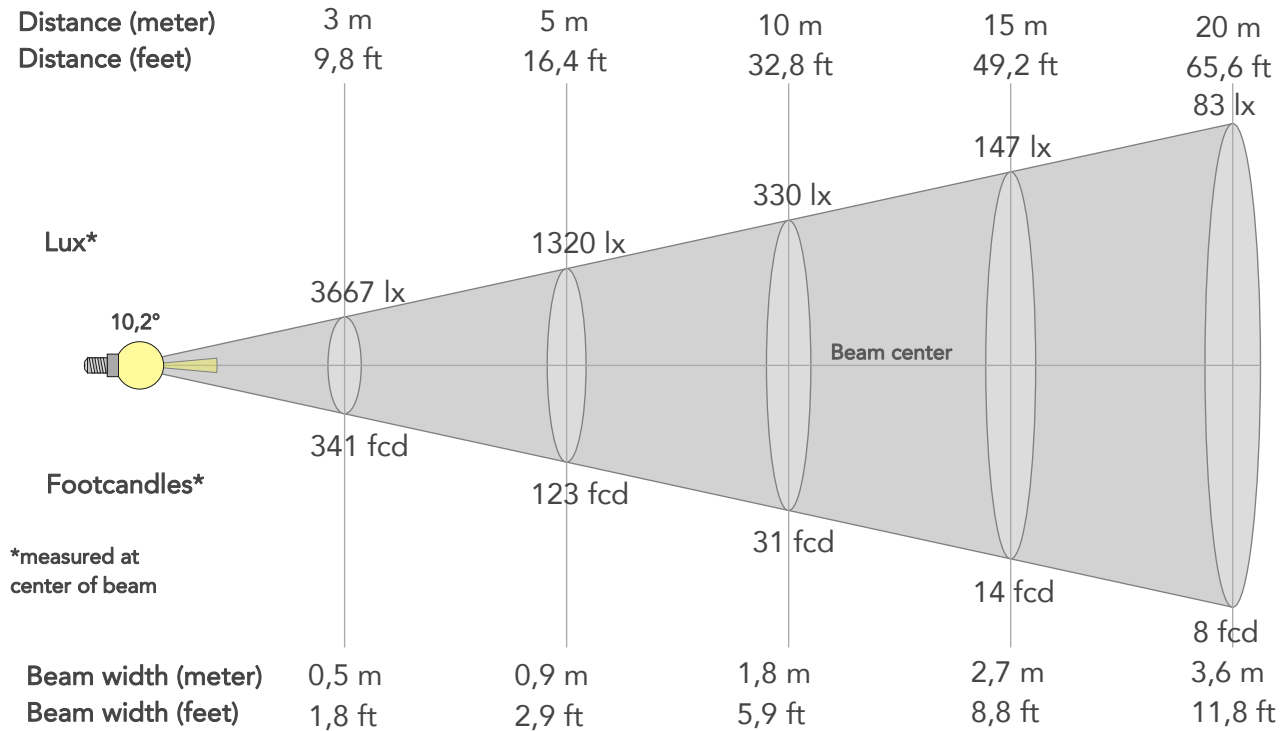
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 95 | 0% | -2% |
| 2 | 97 | -2% | 0% |
| 3 | 94 | -1% | 3% |
| 4 | 92 | 0% | 4% |
| 5 | 92 | 0% | 2% |
| 6 | 95 | 2% | 0% |
| 7 | 97 | 1% | -2% |
| 8 | 95 | -2% | -1% |
| 9 | 94 | -4% | 3% |
| 10 | 88 | -3% | 8% |
| 11 | 81 | 1% | 11% |
| 12 | 90 | 2% | 7% |
| 13 | 91 | 6% | 5% |
| 14 | 94 | 4% | 0% |
| 15 | 86 | 12% | -6% |
| 16 | 94 | 1% | -3% |



BEAM DETAILS



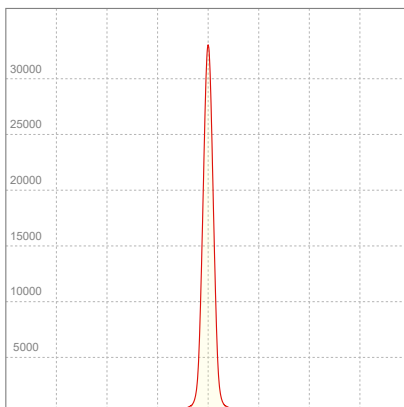
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 10,2° | 18,6° | 27,6° | 97,2% | 94,1% |



BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|-----------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 33004lx | 8251lx | 3667lx | 2063lx | 1320lx | 587lx | 330lx | 147lx | 83lx | 53lx | 37lx | 21lx | 13lx |
| Footcand. | 3066fcd | 767fcd | 341fcd | 192fcd | 123fcd | 55fcd | 31fcd | 14fcd | 8fcd | 5fcd | 3fcd | 2fcd | 1fcd |
| Beam wid. | 0,2m | 0,4m | 0,5m | 0,7m | 0,9m | 1,3m | 1,8m | 2,7m | 3,6m | 4,5m | 5,4m | 7,2m | 9m |
| Beam wid. | 0,6ft | 1,2ft | 1,8ft | 2,3ft | 2,9ft | 4,4ft | 5,9ft | 8,8ft | 11,8ft | 14,7ft | 17,6ft | 23,5ft | 29,4ft |

LINEAR DISTRIBUTION DIAGRAM

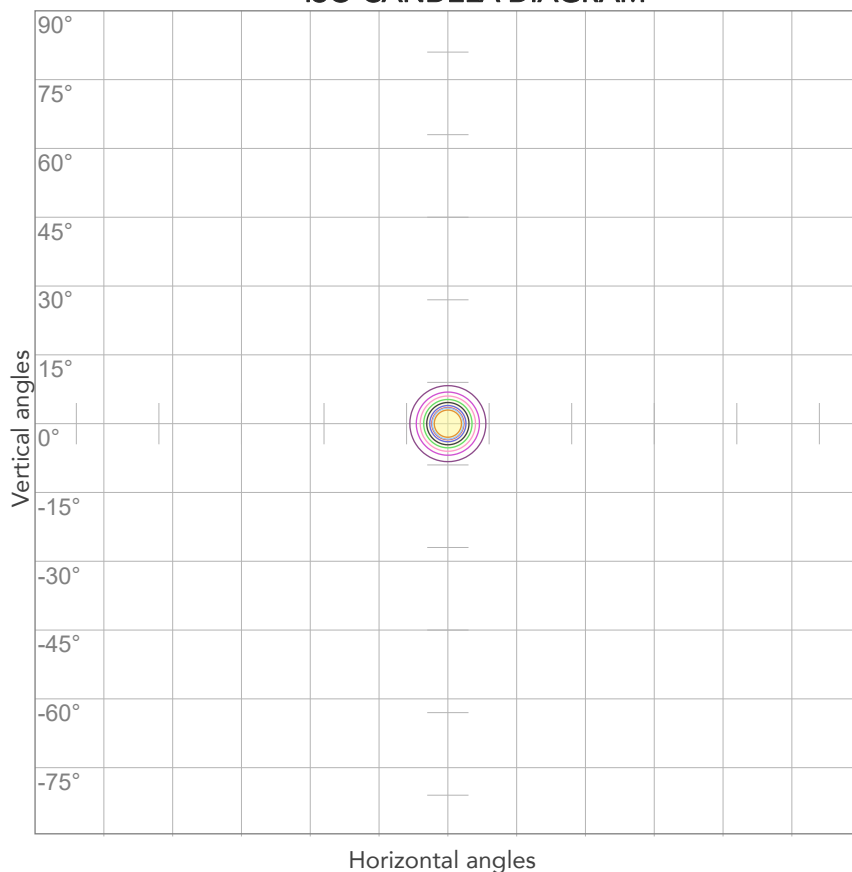


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Effeciency |
|---------------|---------------|-------------|----------|------------|
| 227V | 0,125A | 26,2W | 0,92 | 63lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



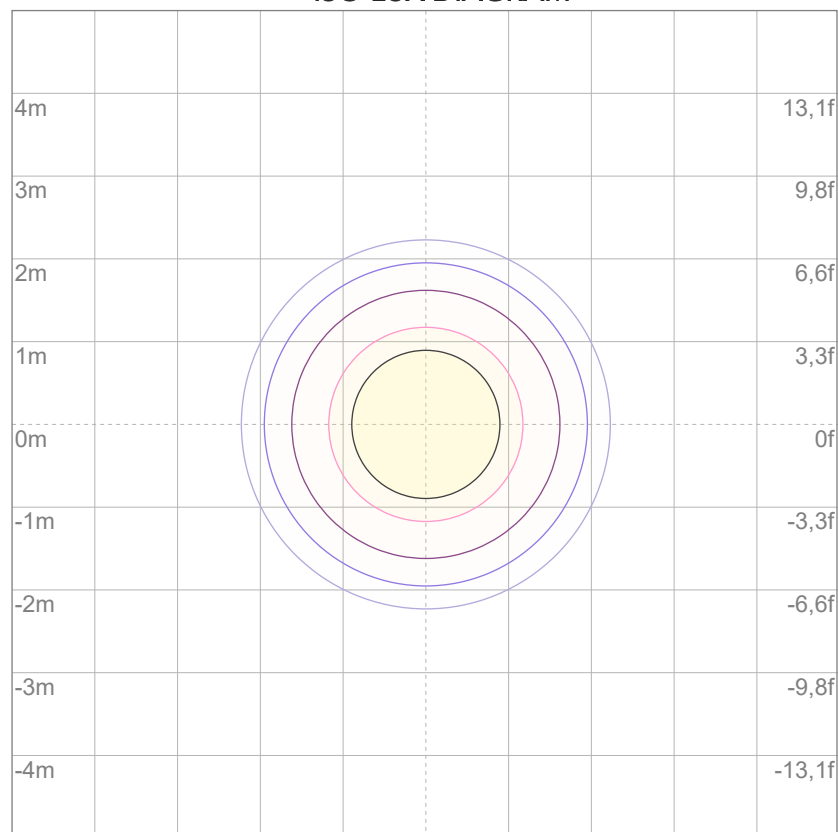
| | |
|-----|----------|
| 10% | 3300 cd |
| 20% | 6601 cd |
| 30% | 9901 cd |
| 40% | 13202 cd |
| 50% | 16502 cd |
| 60% | 19802 cd |
| 70% | 23103 cd |
| 80% | 26403 cd |

Conditions:

Number of c-planes: 2

Candela at center: 33004 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 9,90 lx |
| 5% | 16,5 lx |
| 10% | 33,0 lx |
| 30% | 99,0 lx |
| 50% | 165 lx |

Conditions:

Number of c-planes: 2

Lux at center: 330 lx

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



Total lumen output:

1512 lm

Peak candela output:

6159 cd

Light quality:

CRI: 93,0

Color temperature:

6631 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 20° Filter

Target:

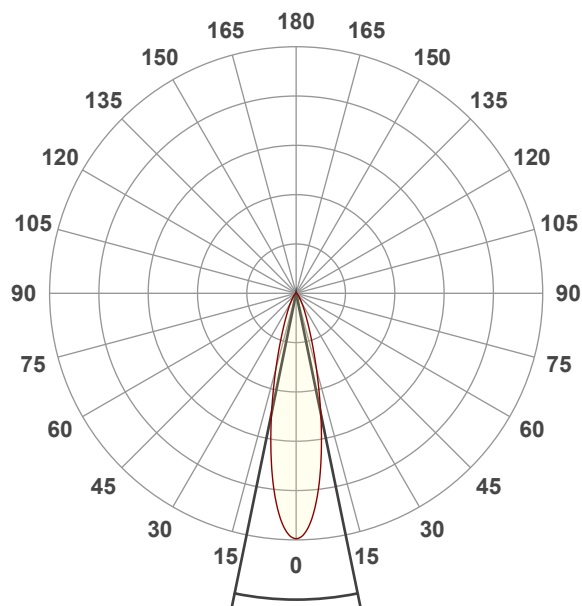
Cold White

Operator:

Salvatore Giglio

Date and time:

19/02/2024 17:14:12

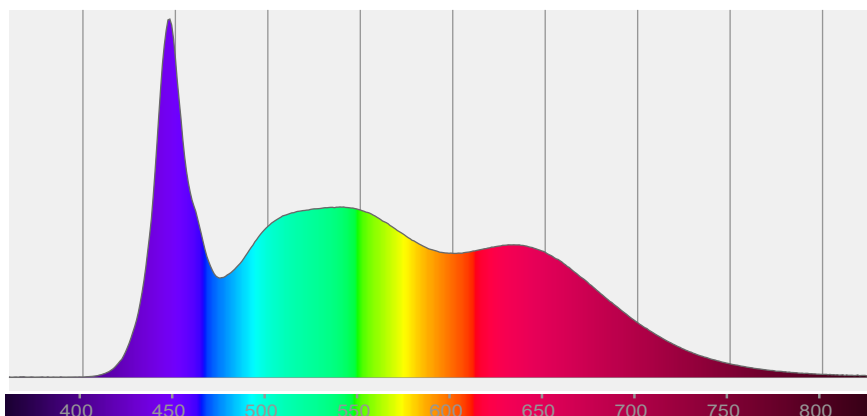


Beam angle 50%: 23,2°

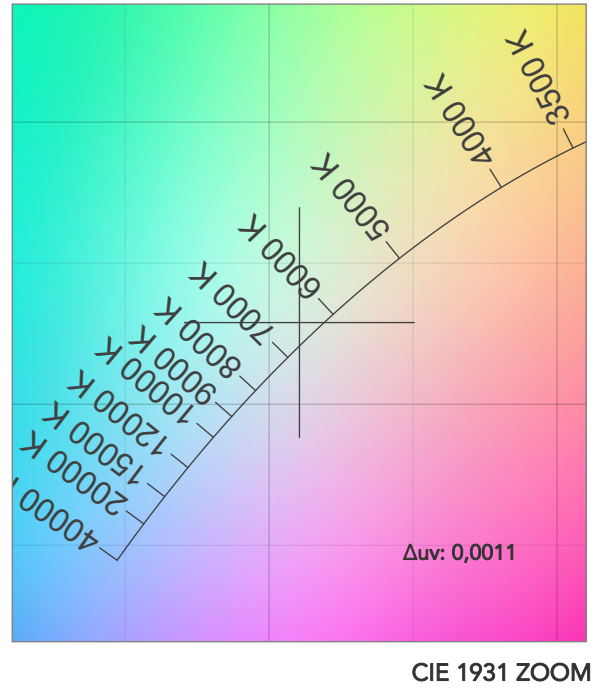
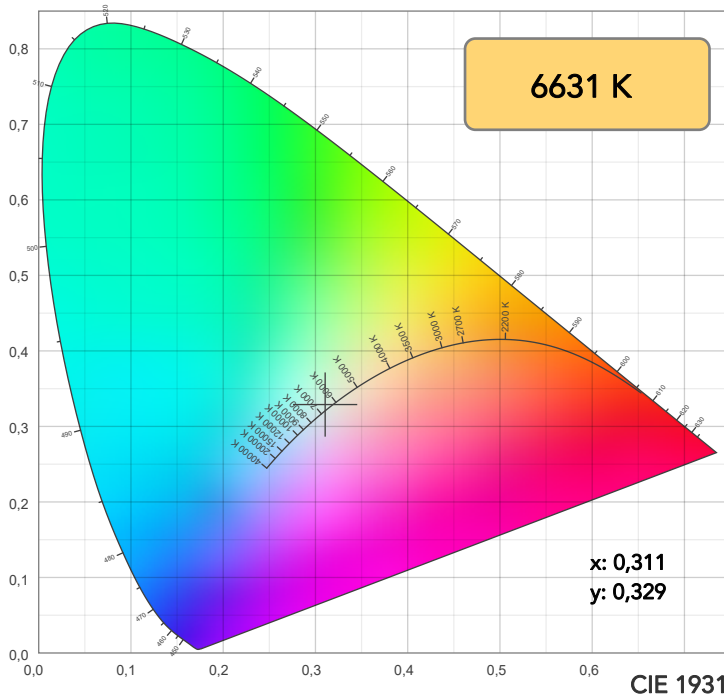
Field angle 10%: 46,9°

Cut off angle 2.5%: 72,6°

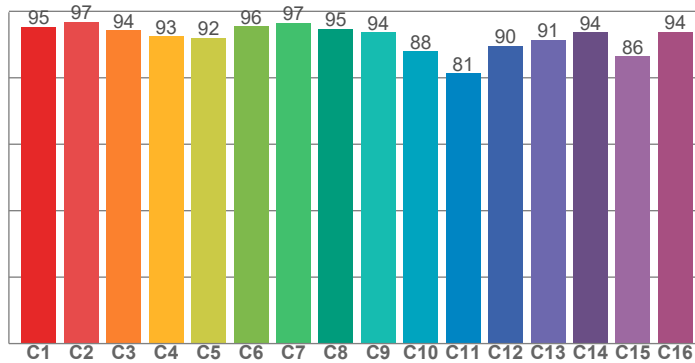
Spectra



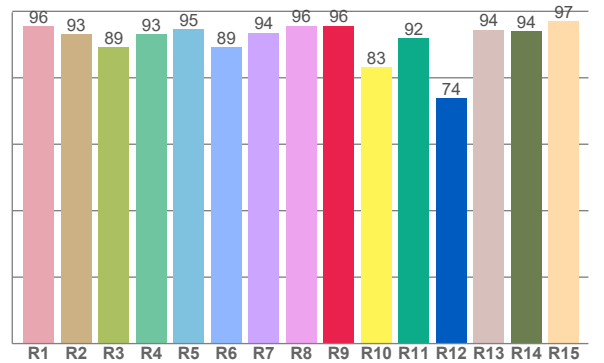
COLOR DETAILS



TM30: 92,2



CRI: 93,0 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,6 | 93,1 | 89,1 | 93,1 | 94,7 | 89,3 | 93,5 | 95,7 | 95,7 | 83,2 | 92,0 | 73,9 | 94,5 | 94,1 | 97,0 |

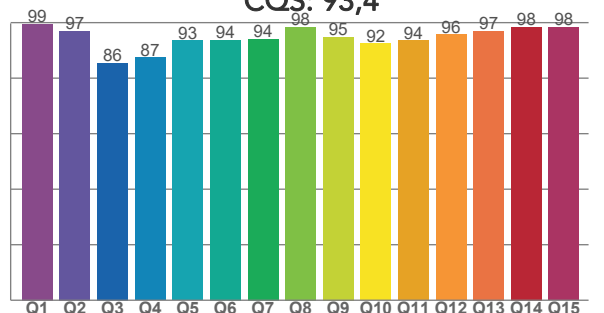
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,4 | 96,8 | 94,2 | 92,5 | 92,0 | 95,5 | 96,6 | 94,7 | 93,7 | 87,9 | 81,3 | 89,6 | 91,4 | 93,7 | 86,4 | 93,9 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 99,4 | 96,9 | 85,5 | 87,4 | 93,5 | 93,8 | 94,1 | 98,5 | 94,8 | 92,5 | 93,6 | 95,6 | 97,0 | 98,4 | 98,3 |

CQS: 93,4



COLOR PARAMETERS

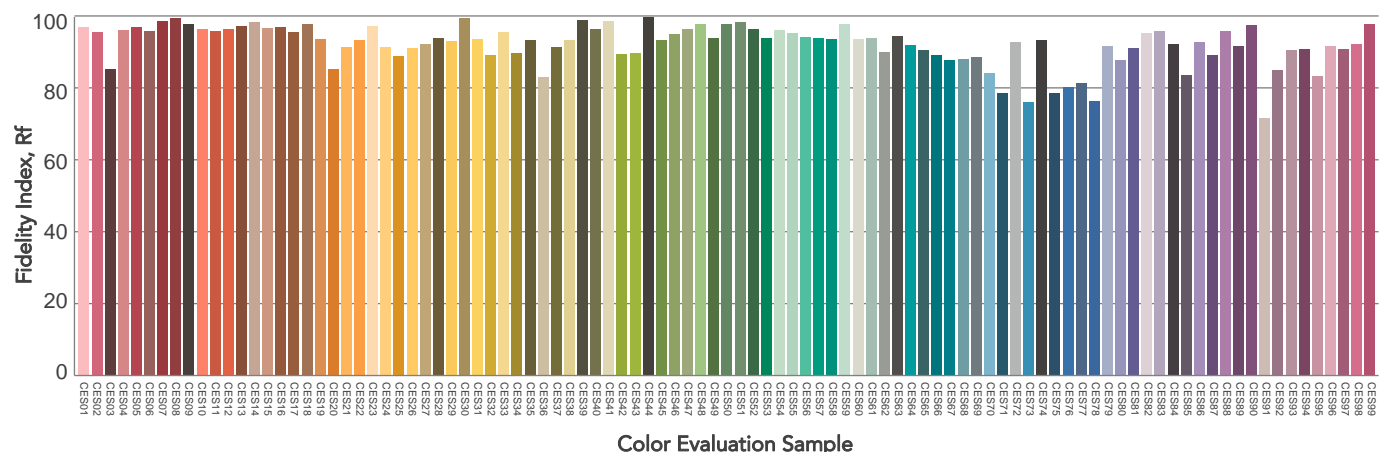
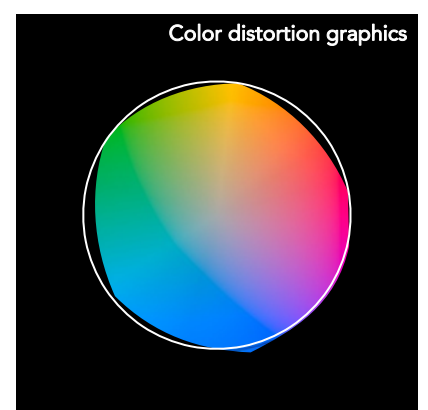
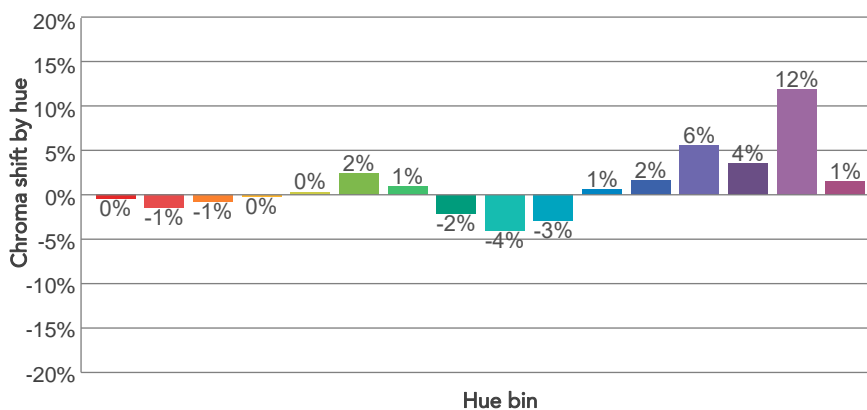
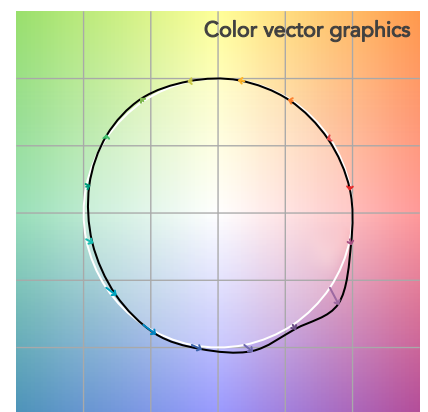
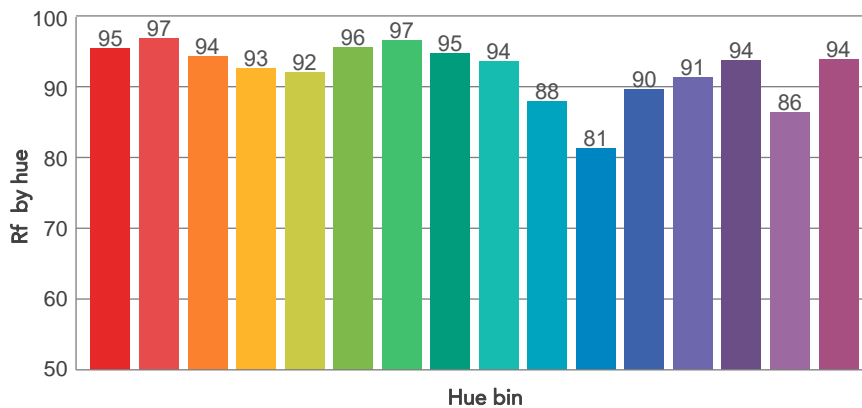
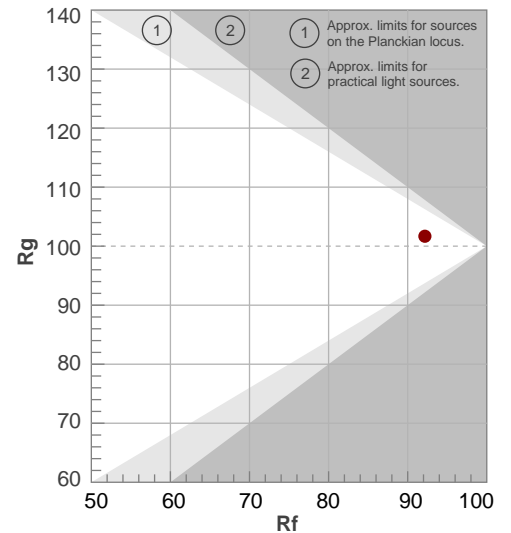
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 6631 K | 93,0 | 95,7 | 92,2 | 101,7 | 93,4 | 98 | 0,311 | 0,329 | 0,0011 |

TM30 DETAILS

Rf 92,2
Fidelity index Rf

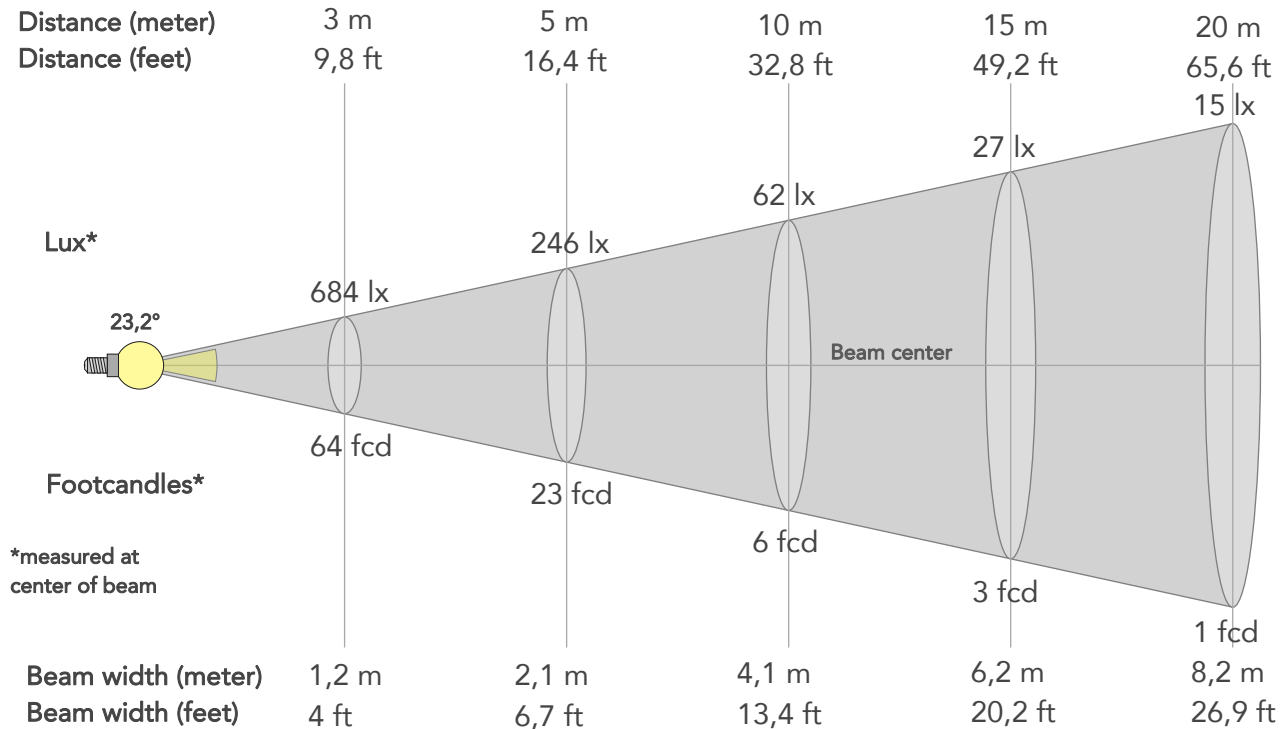
Rg 101,7
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 95 | 0% | -2% |
| 2 | 97 | -1% | 0% |
| 3 | 94 | -1% | 3% |
| 4 | 93 | 0% | 4% |
| 5 | 92 | 0% | 2% |
| 6 | 96 | 2% | 0% |
| 7 | 97 | 1% | -2% |
| 8 | 95 | -2% | -1% |
| 9 | 94 | -4% | 3% |
| 10 | 88 | -3% | 8% |
| 11 | 81 | 1% | 11% |
| 12 | 90 | 2% | 7% |
| 13 | 91 | 6% | 5% |
| 14 | 94 | 4% | 0% |
| 15 | 86 | 12% | -6% |
| 16 | 94 | 1% | -3% |



BEAM DETAILS

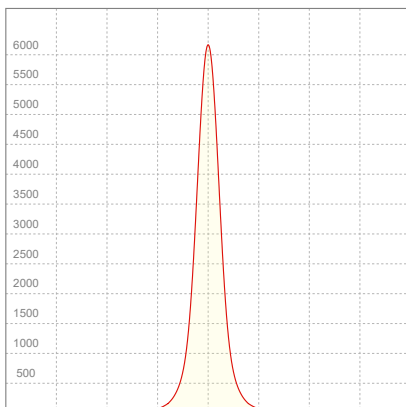
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 23,2° | 46,9° | 72,6° | 97,0% | 92,8% |



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 | 6159lx | 1540lx | 684lx | 385lx | 246lx | 109lx | 62lx | 27lx | 15lx | 10lx | 7lx | 4lx | 2lx |
| Footcand. | 572fcd | 143fcd | 64fcd | 36fcd | 23fcd | 10fcd | 6fcd | 3fcd | 1fcd | 1fcd | 1fcd | 0fcd | 0fcd |
| Beam wid. | 0,4m | 0,8m | 1,2m | 1,6m | 2,1m | 3,1m | 4,1m | 6,2m | 8,2m | 10,3m | 12,3m | 16,4m | 20,5m |
| Beam wid. | 1,4ft | 2,7ft | 4ft | 5,4ft | 6,7ft | 10,1ft | 13,4ft | 20,2ft | 26,9ft | 33,6ft | 40,3ft | 53,8ft | 67,2ft |

LINEAR DISTRIBUTION DIAGRAM

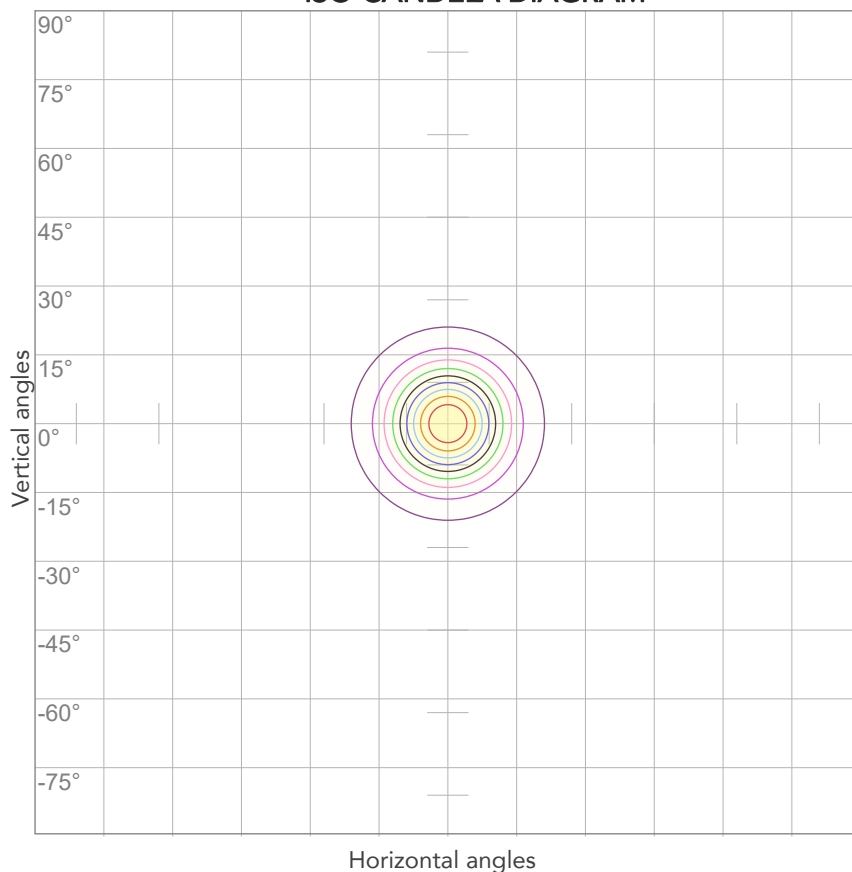


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Effeciency |
|---------------|---------------|-------------|----------|------------|
| 227V | 0,124A | 26,2W | 0,93 | 58lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



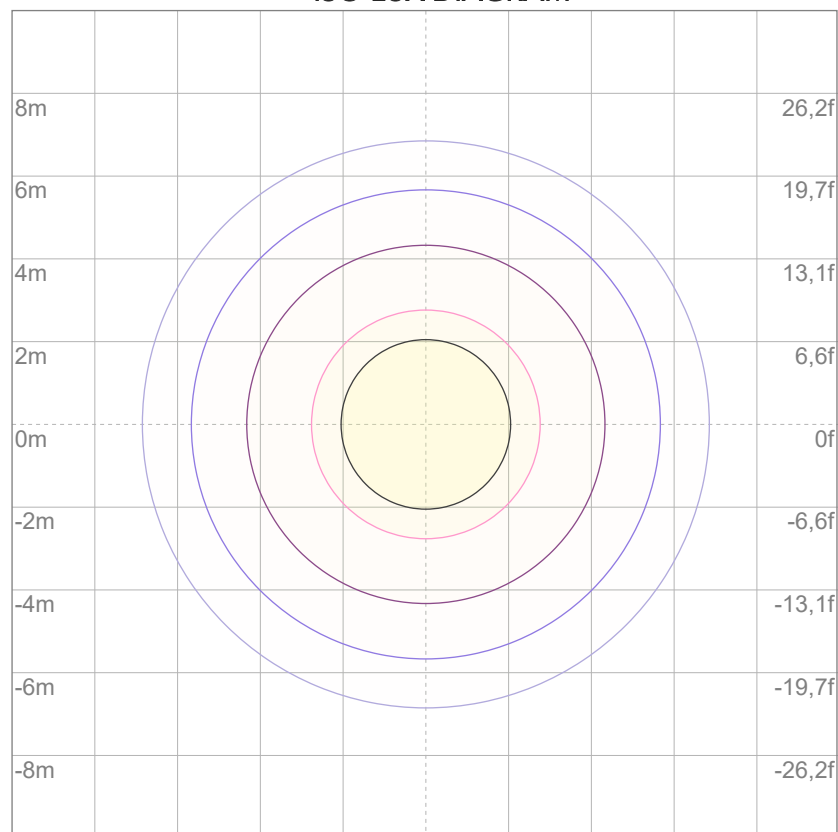
| | |
|-----|---------|
| 10% | 616 cd |
| 20% | 1232 cd |
| 30% | 1848 cd |
| 40% | 2464 cd |
| 50% | 3080 cd |
| 60% | 3695 cd |
| 70% | 4311 cd |
| 80% | 4927 cd |

Conditions:

Number of c-planes: 2

Candela at center: 6159 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 1,85 lx |
| 5% | 3,08 lx |
| 10% | 6,16 lx |
| 30% | 18,5 lx |
| 50% | 30,8 lx |

Conditions:

Number of c-planes: 2

Lux at center: 61,6 lx

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



Total lumen output:

1430 lm

Peak candela output:

1768 cd

Light quality:

CRI: 93,7

Color temperature:

6695 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 0° Filter

Target:

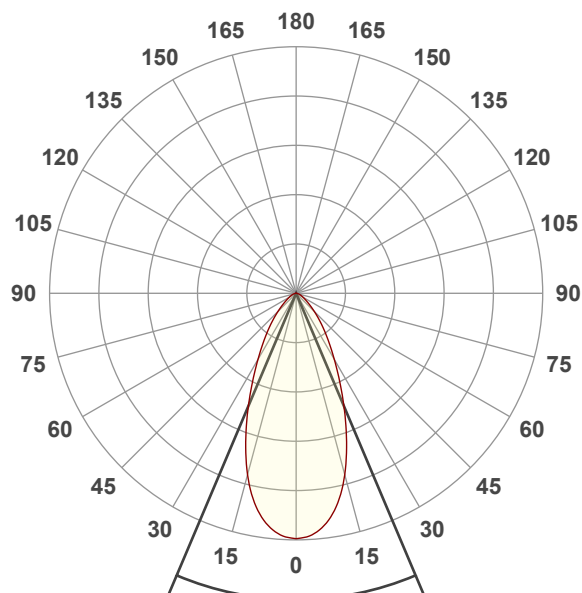
Cold White

Operator:

Salvatore Giglio

Date and time:

19/02/2024 17:50:11

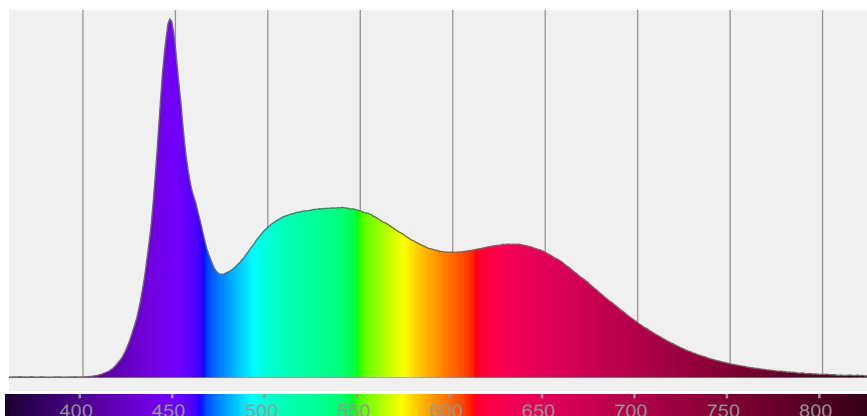


Beam angle 50%: 45,9°

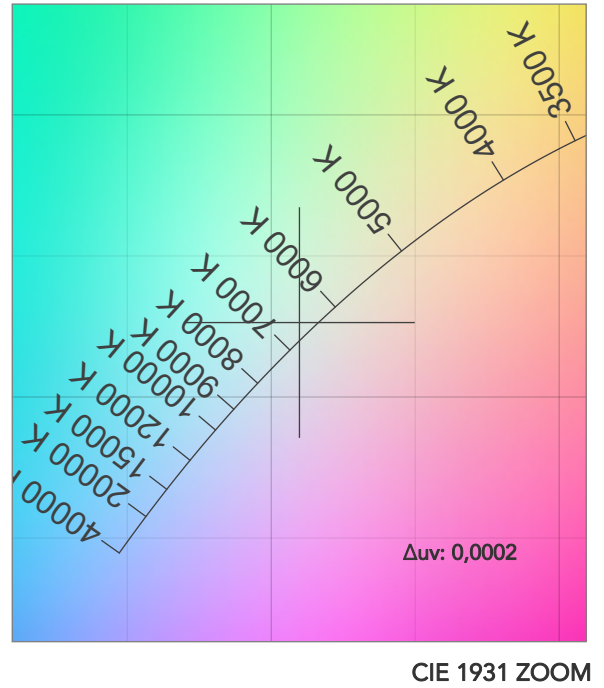
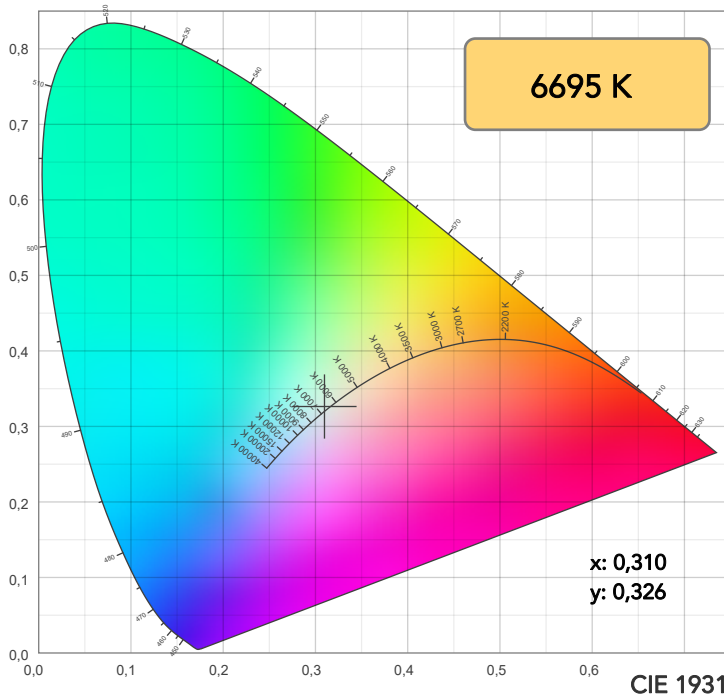
Field angle 10%: 91,2°

Cut off angle 2.5%: 128,2°

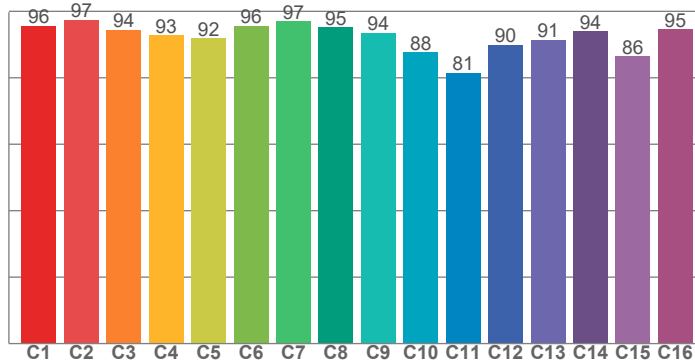
Spectra



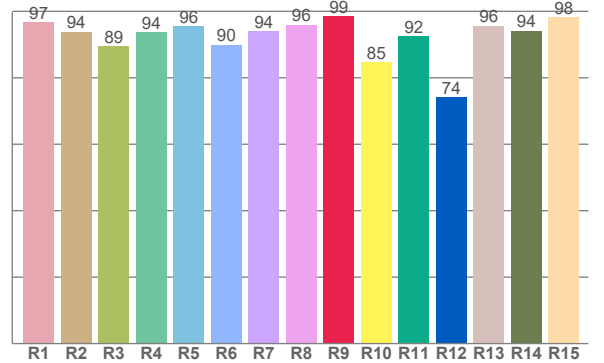
COLOR DETAILS



TM30: 92,3



CRI: 93,7 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,6 | 93,9 | 89,4 | 93,8 | 95,6 | 90,0 | 94,1 | 96,0 | 98,6 | 84,7 | 92,5 | 74,1 | 95,6 | 94,2 | 98,1 |

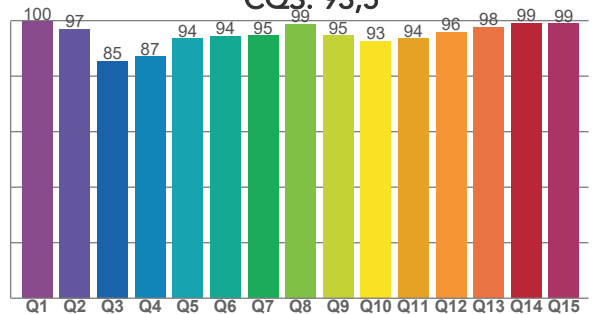
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,6 | 97,4 | 94,5 | 92,8 | 91,9 | 95,7 | 97,0 | 95,2 | 93,6 | 87,7 | 81,5 | 89,9 | 91,4 | 93,9 | 86,4 | 94,5 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 99,7 | 97,0 | 85,4 | 87,1 | 93,6 | 94,5 | 94,6 | 98,7 | 94,6 | 92,6 | 93,6 | 95,9 | 97,6 | 99,0 | 98,9 |

CQS: 93,5



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 |
| 6695 K | 93,7 | 98,6 | 92,3 | 101,8 | 93,5 | 98 | 0,310 | 0,326 | 0,0002 |

TM30 DETAILS

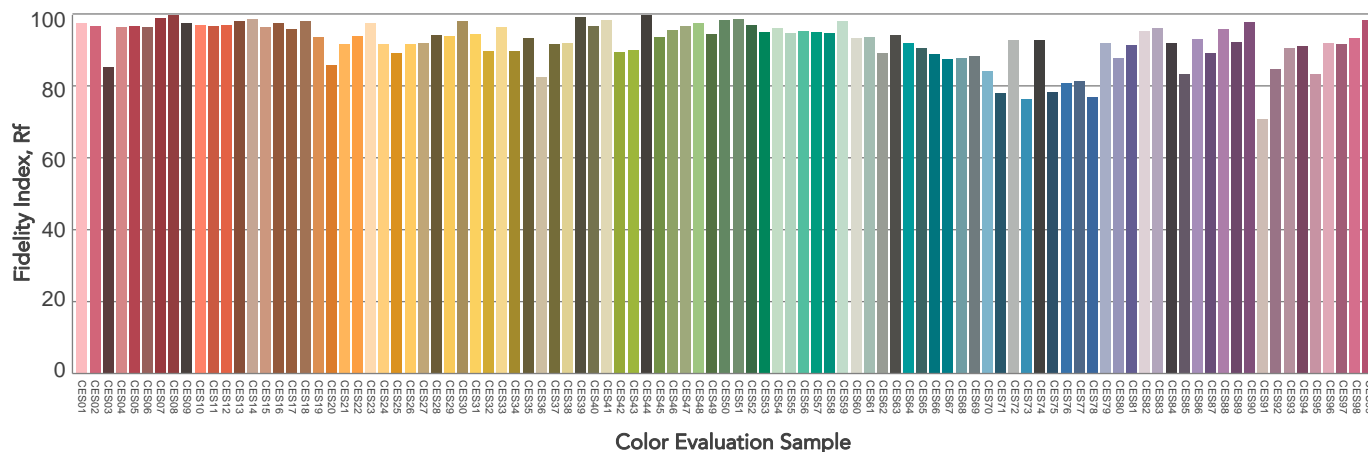
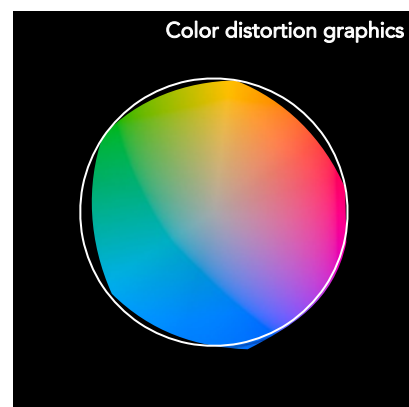
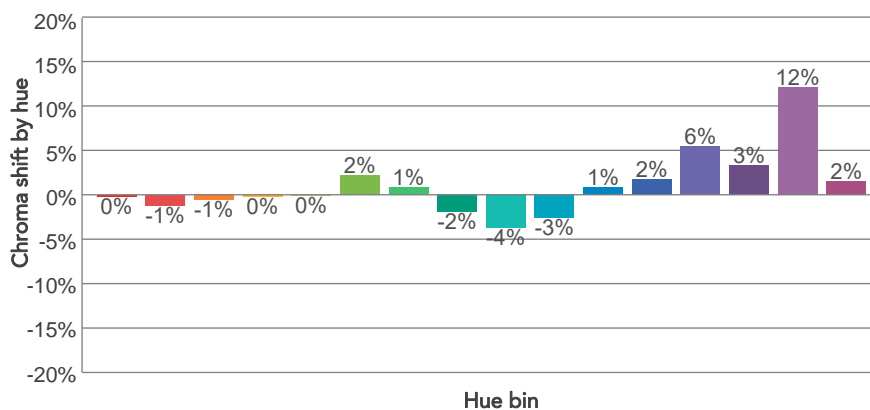
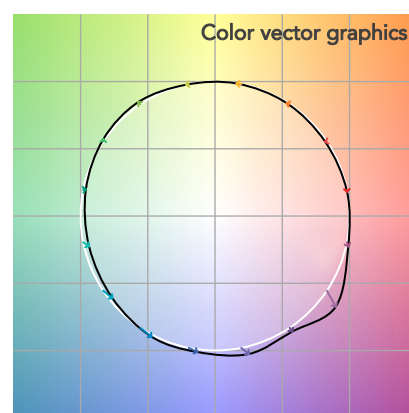
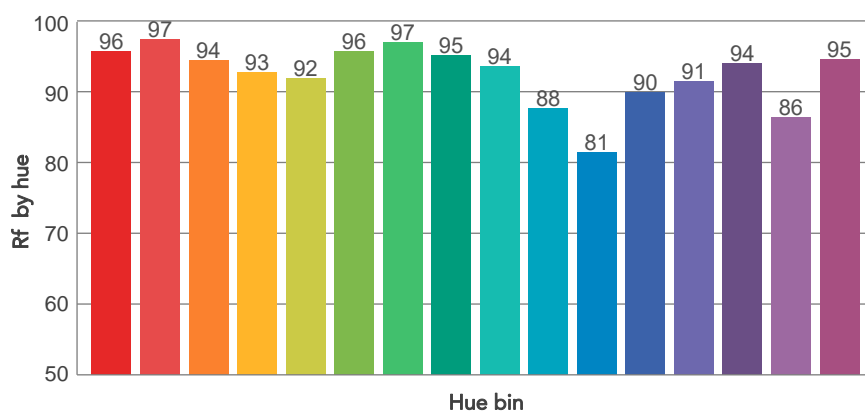
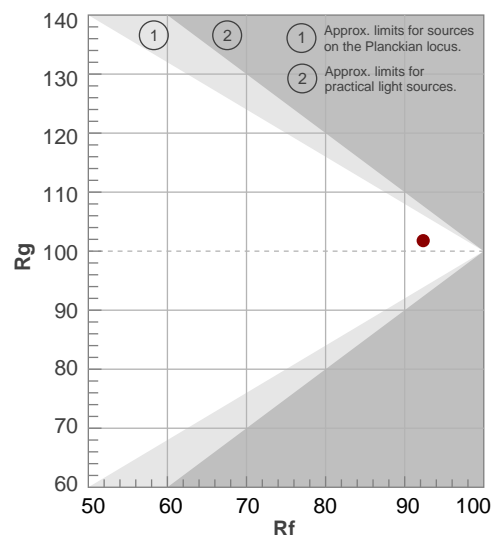
Rf 92,3

Fidelity index Rf

Rg 101,8

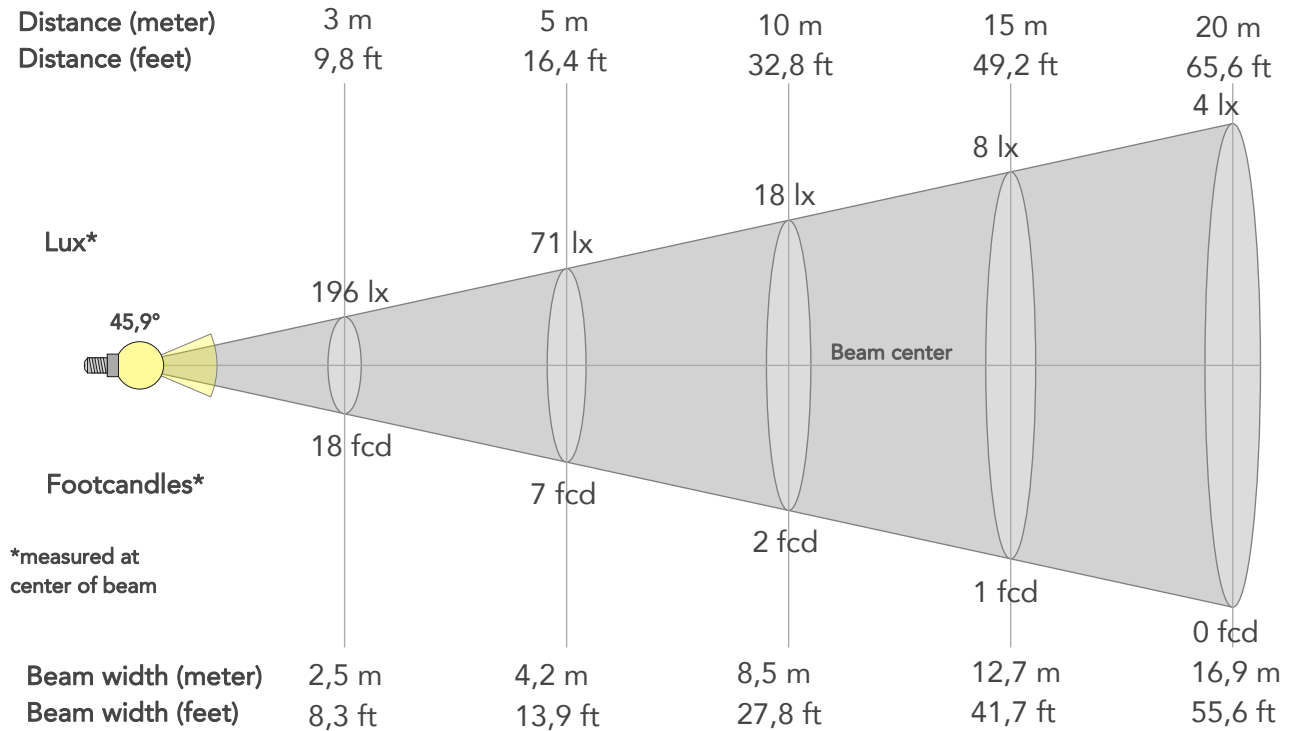
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 96 | 0% | -2% |
| 2 | 97 | -1% | 0% |
| 3 | 94 | -1% | 2% |
| 4 | 93 | 0% | 4% |
| 5 | 92 | 0% | 2% |
| 6 | 96 | 2% | 0% |
| 7 | 97 | 1% | -1% |
| 8 | 95 | -2% | -1% |
| 9 | 94 | -4% | 4% |
| 10 | 88 | -3% | 8% |
| 11 | 81 | 1% | 11% |
| 12 | 90 | 2% | 7% |
| 13 | 91 | 6% | 5% |
| 14 | 94 | 3% | 0% |
| 15 | 86 | 12% | -6% |
| 16 | 95 | 2% | -3% |



BEAM DETAILS

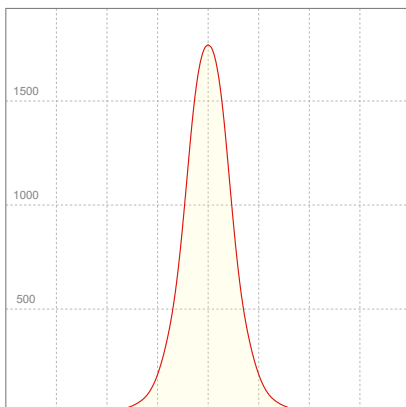
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 45,9° | 91,2° | 128,2° | 94,9% | 85,2% |



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 | 1768lx | 442lx | 196lx | 110lx | 71lx | 31lx | 18lx | 8lx | 4lx | 3lx | 2lx | 1lx | 1lx |
| Footcand. | 164fcd | 41fcd | 18fcd | 10fcd | 7fcd | 3fcd | 2fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,8m | 1,7m | 2,5m | 3,4m | 4,2m | 6,4m | 8,5m | 12,7m | 16,9m | 21,2m | 25,4m | 33,9m | 42,3m |
| Beam wid. | 2,8ft | 5,6ft | 8,3ft | 11,1ft | 13,9ft | 20,8ft | 27,8ft | 41,7ft | 55,6ft | 69,5ft | 83,3ft | 111,1ft | 138,9ft |

LINEAR DISTRIBUTION DIAGRAM

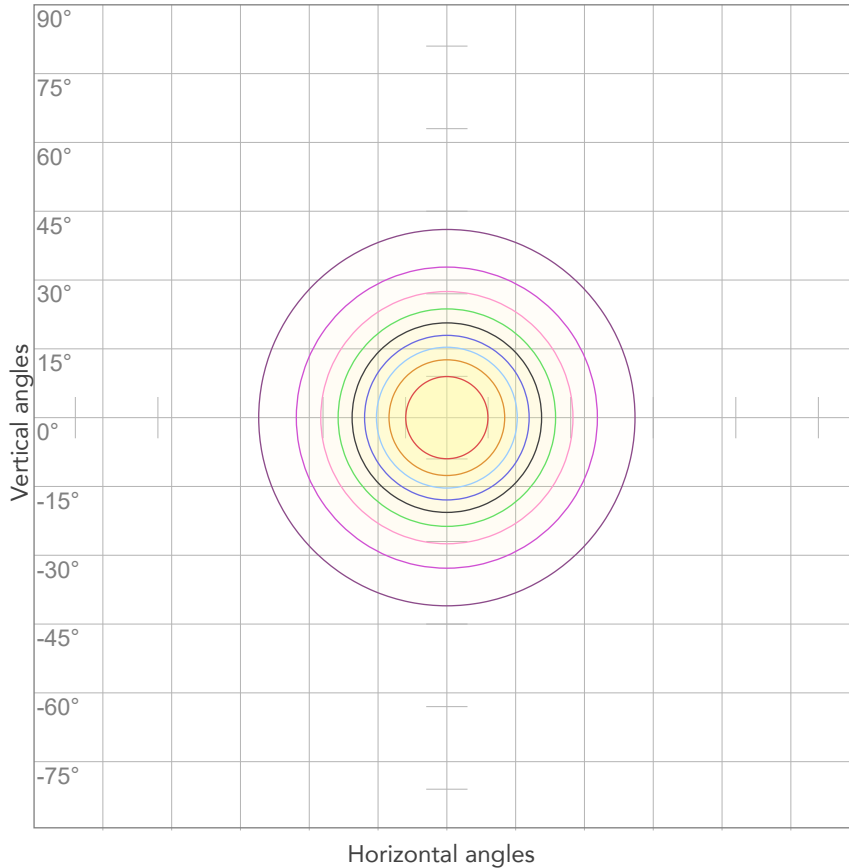


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Efficiency |
|---------------|---------------|-------------|----------|------------|
| 225V | 0,125A | 25,9W | 0,92 | 55lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



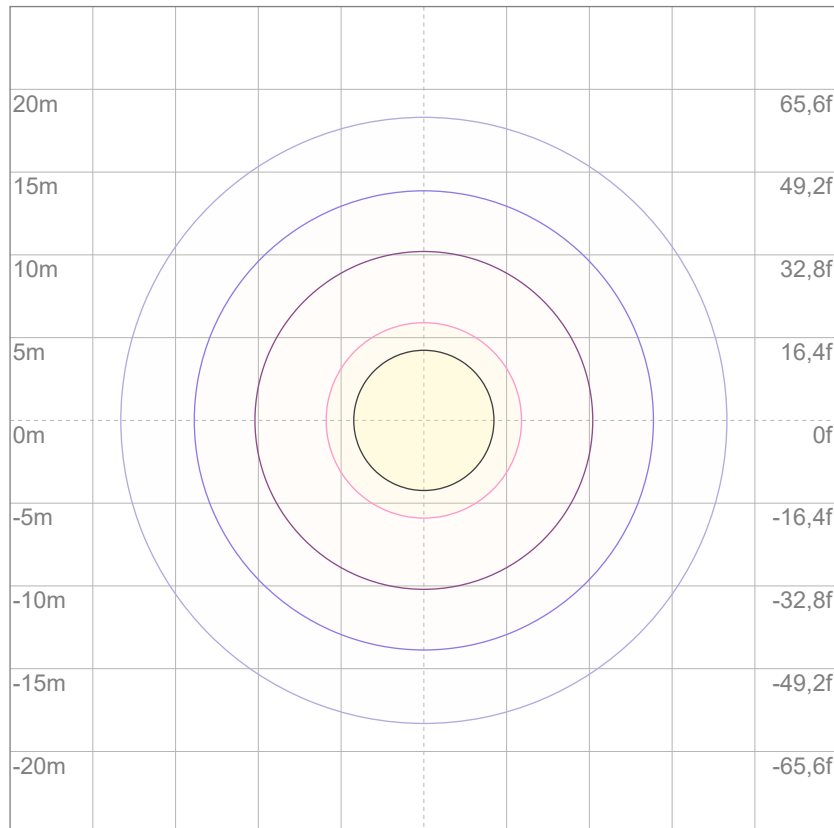
| | |
|-----|---------|
| 10% | 177 cd |
| 20% | 354 cd |
| 30% | 530 cd |
| 40% | 707 cd |
| 50% | 884 cd |
| 60% | 1061 cd |
| 70% | 1238 cd |
| 80% | 1414 cd |

Conditions:

Number of c-planes: 2

Candela at center: 1768 cd

ISO LUX DIAGRAM



| | |
|-----|----------|
| 3% | 0,530 lx |
| 5% | 0,884 lx |
| 10% | 1,77 lx |
| 30% | 5,30 lx |
| 50% | 8,84 lx |

Conditions:

Number of c-planes: 2

Lux at center: 17,7 lx

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



Total lumen output:

1465 lm

Peak candela output:

1330 cd

Light quality:

CRI: 92,4

Color temperature:

6646 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 60° Filter

Target:

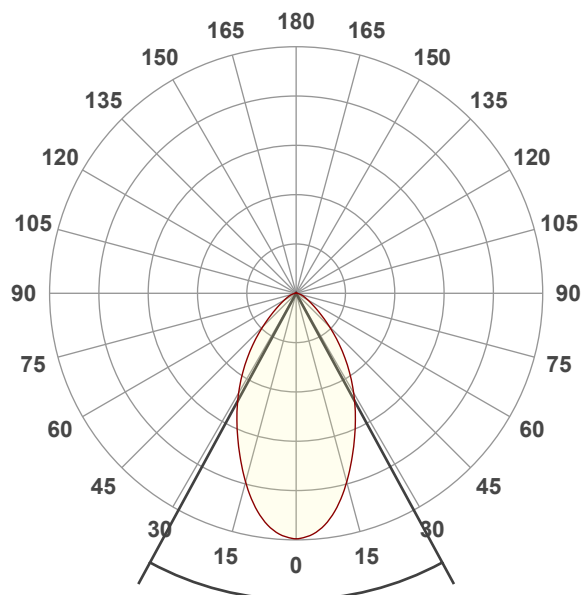
Cold White

Operator:

Salvatore Giglio

Date and time:

20/02/2024 09:16:47

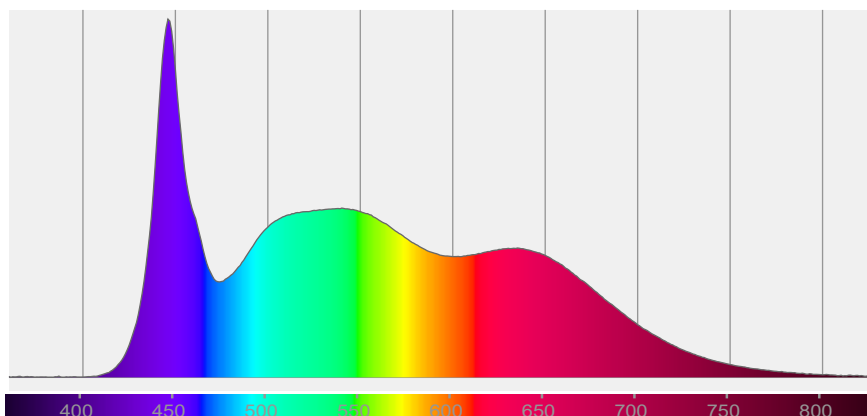


Beam angle 50%: 57°

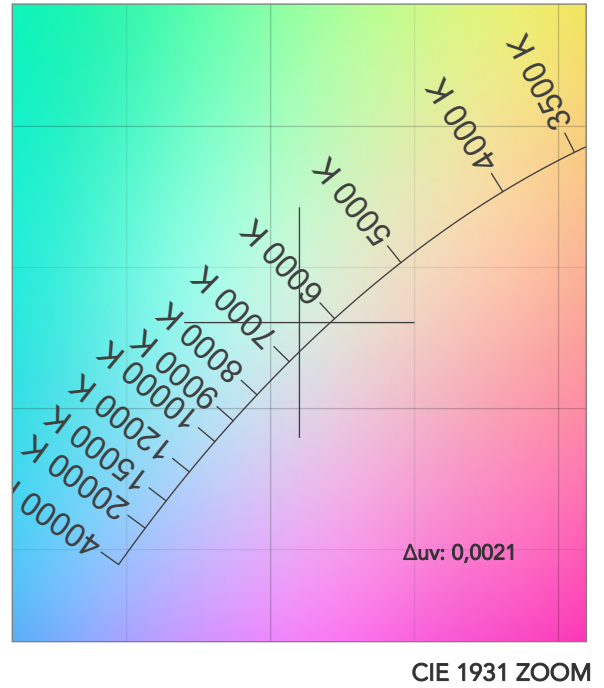
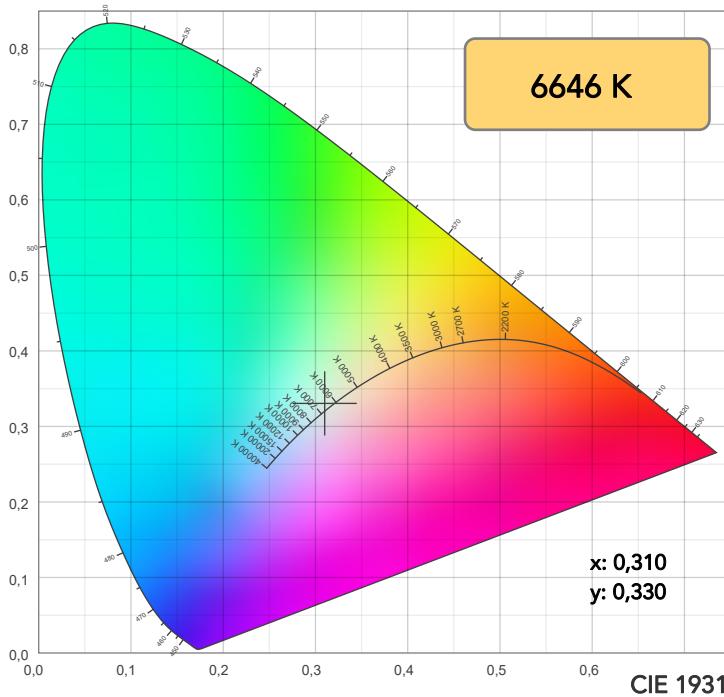
Field angle 10%: 105,7°

Cut off angle 2.5%: 143°

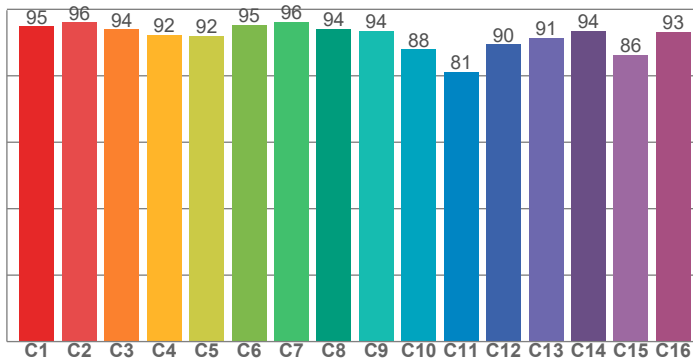
Spectra



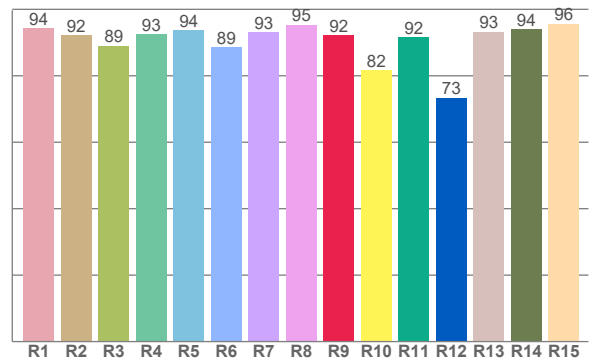
COLOR DETAILS



TM30: 91,9



CRI: 92,4 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,4 | 92,3 | 89,0 | 92,5 | 93,6 | 88,5 | 93,2 | 95,3 | 92,3 | 81,7 | 91,5 | 73,4 | 93,3 | 94,1 | 95,7 |

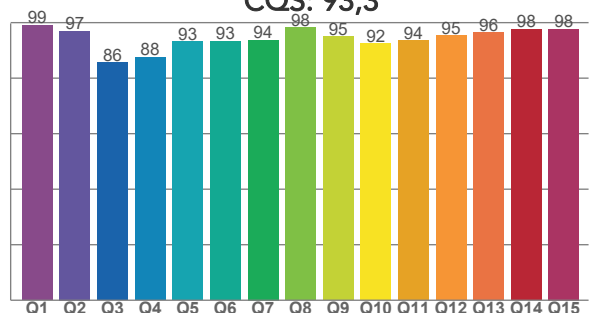
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,8 | 96,1 | 94,0 | 92,4 | 92,0 | 95,4 | 96,3 | 94,1 | 93,5 | 88,0 | 81,1 | 89,5 | 91,4 | 93,5 | 86,3 | 93,2 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 99,1 | 96,9 | 85,6 | 87,5 | 93,2 | 93,3 | 93,7 | 98,2 | 95,0 | 92,4 | 93,6 | 95,3 | 96,4 | 97,6 | 97,8 |

CQS: 93,3



COLOR PARAMETERS

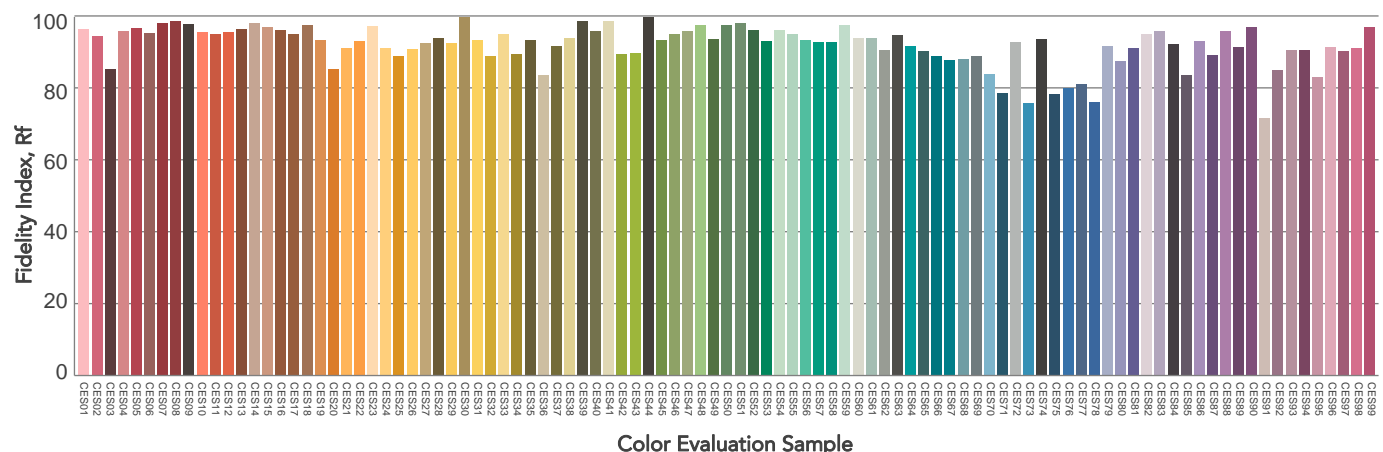
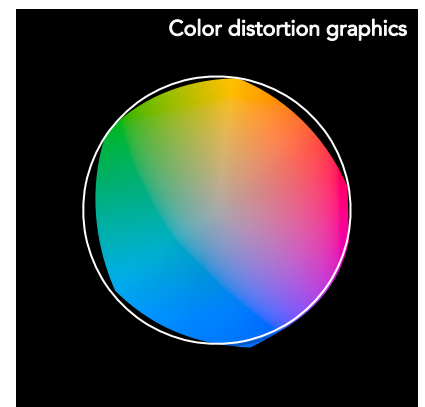
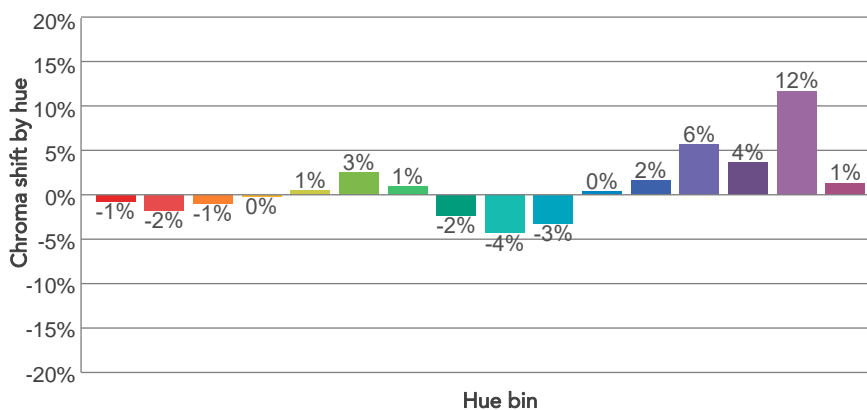
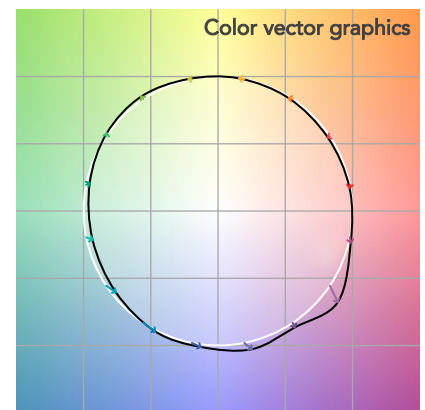
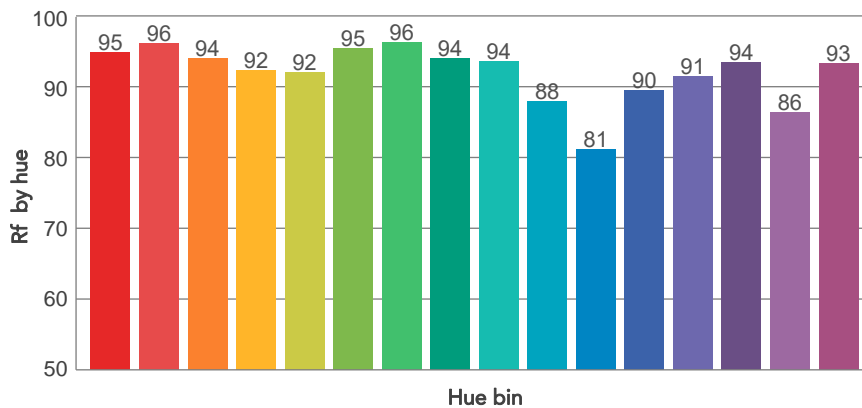
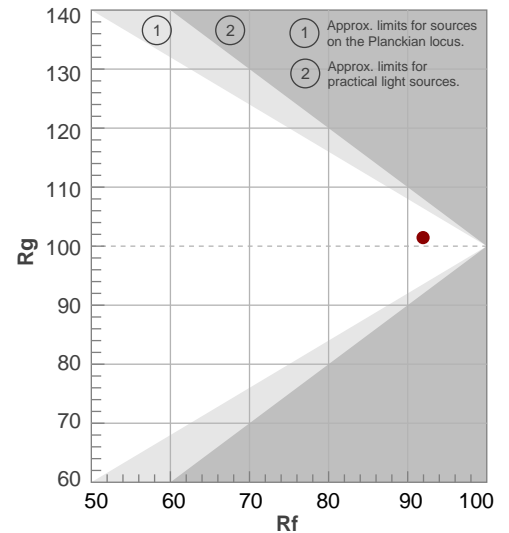
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 6646 K | 92,4 | 92,3 | 91,9 | 101,4 | 93,3 | 98 | 0,310 | 0,330 | 0,0021 |

TM30 DETAILS

Rf 91,9
Fidelity index Rf

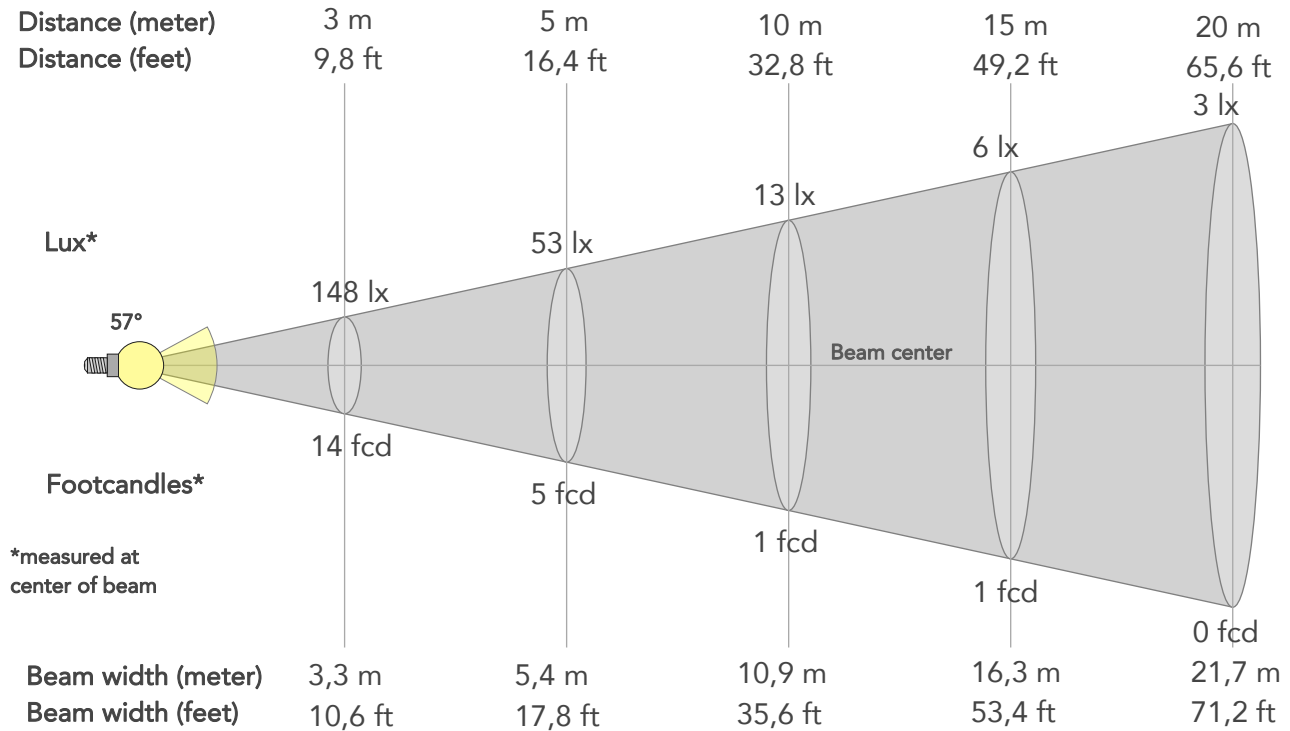
Rg 101,4
Gammut index

| | | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| Hue Bin | R _f | Chroma | Hue |
| 1 | 95 | -1% | -2% |
| 2 | 96 | -2% | 0% |
| 3 | 94 | -1% | 3% |
| 4 | 92 | 0% | 4% |
| 5 | 92 | 1% | 2% |
| 6 | 95 | 3% | 0% |
| 7 | 96 | 1% | -2% |
| 8 | 94 | -2% | -2% |
| 9 | 94 | -4% | 3% |
| 10 | 88 | -3% | 8% |
| 11 | 81 | 0% | 11% |
| 12 | 90 | 2% | 7% |
| 13 | 91 | 6% | 5% |
| 14 | 94 | 4% | -1% |
| 15 | 86 | 12% | -7% |
| 16 | 93 | 1% | -4% |



BEAM DETAILS

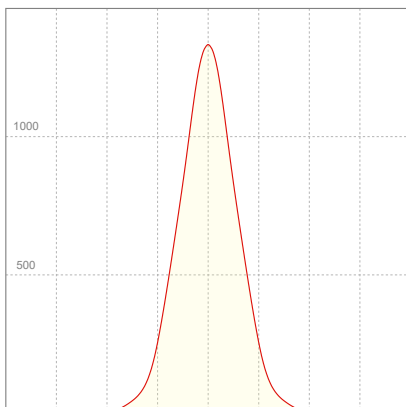
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 57° | 105,7° | 143° | 93,6% | 80,9% |



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 | 1330lx | 333lx | 148lx | 83lx | 53lx | 24lx | 13lx | 6lx | 3lx | 2lx | 1lx | 1lx | 1lx |
| Footcand. | 124fcd | 31fcd | 14fcd | 8fcd | 5fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 1,1m | 2,2m | 3,3m | 4,3m | 5,4m | 8,1m | 10,9m | 16,3m | 21,7m | 27,1m | 32,6m | 43,4m | 54,3m |
| Beam wid. | 3,6ft | 7,2ft | 10,6ft | 14,2ft | 17,8ft | 26,7ft | 35,6ft | 53,4ft | 71,2ft | 89ft | 106,8ft | 142,4ft | 178ft |

LINEAR DISTRIBUTION DIAGRAM

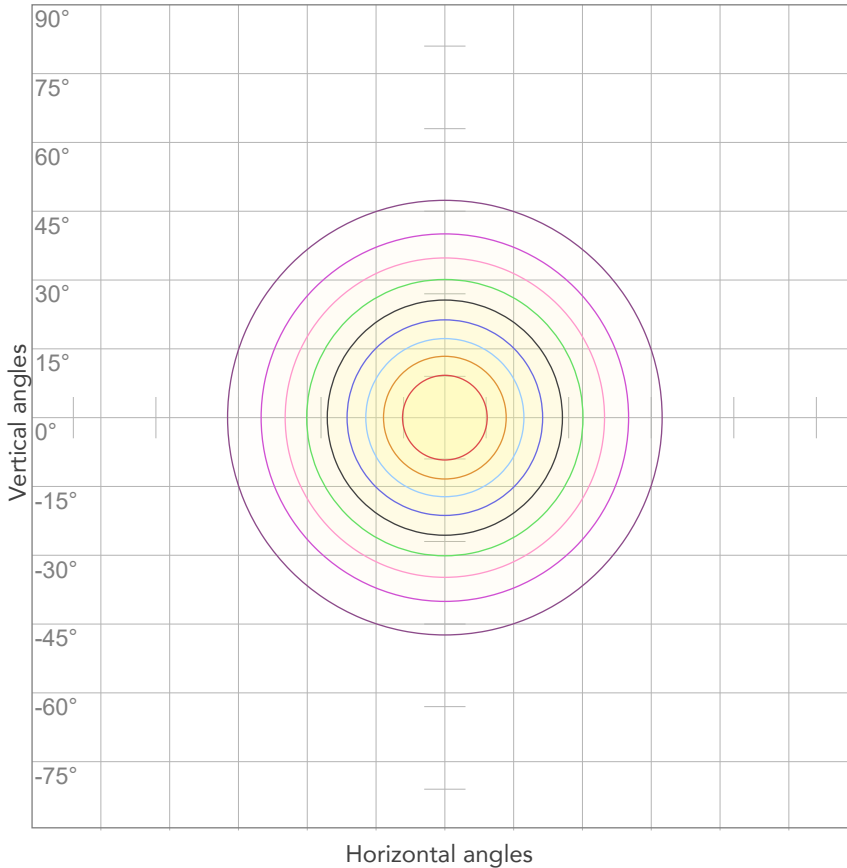


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Efficiency |
|---------------|---------------|-------------|----------|------------|
| 223V | 0,128A | 26,5W | 0,93 | 55lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



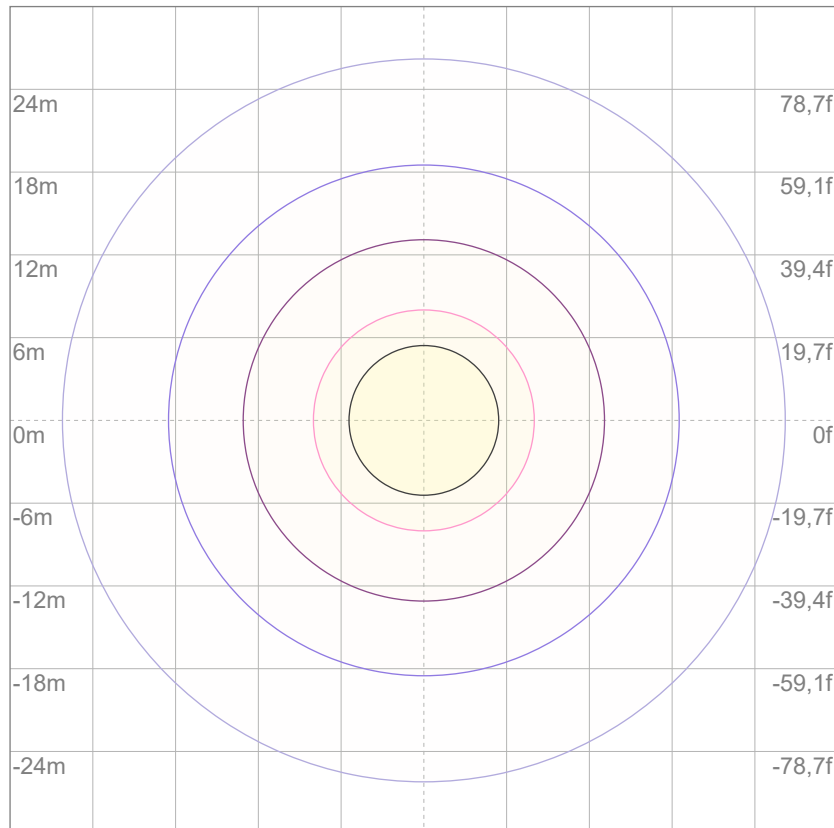
| | |
|-----|---------|
| 10% | 133 cd |
| 20% | 266 cd |
| 30% | 399 cd |
| 40% | 532 cd |
| 50% | 665 cd |
| 60% | 798 cd |
| 70% | 931 cd |
| 80% | 1064 cd |

Conditions:

Number of c-planes: 2

Candela at center: 1330 cd

ISO LUX DIAGRAM



| | |
|-----|----------|
| 3% | 0,399 lx |
| 5% | 0,665 lx |
| 10% | 1,33 lx |
| 30% | 3,99 lx |
| 50% | 6,65 lx |

Conditions:

Number of c-planes: 2

Lux at center: 13,3 lx

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



Total lumen output:

2207 lm

Peak candela output:

4504 cd

Light quality:

CRI: 93,4

Color temperature:

6589 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 10°x 60° Filter

Target:

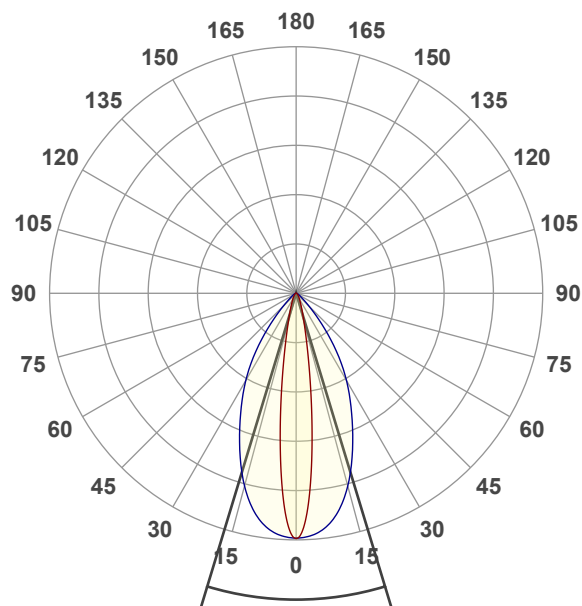
Cold White

Operator:

Salvatore Giglio

Date and time:

20/02/2024 11:21:39

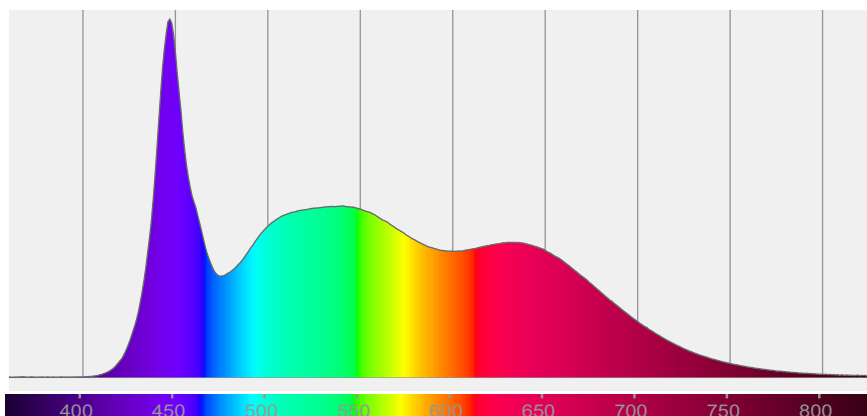


Beam angle 50%: 33,7°

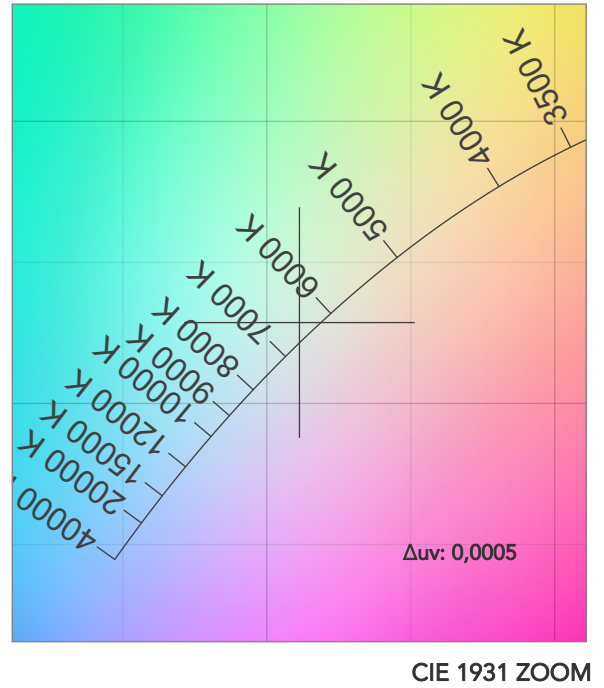
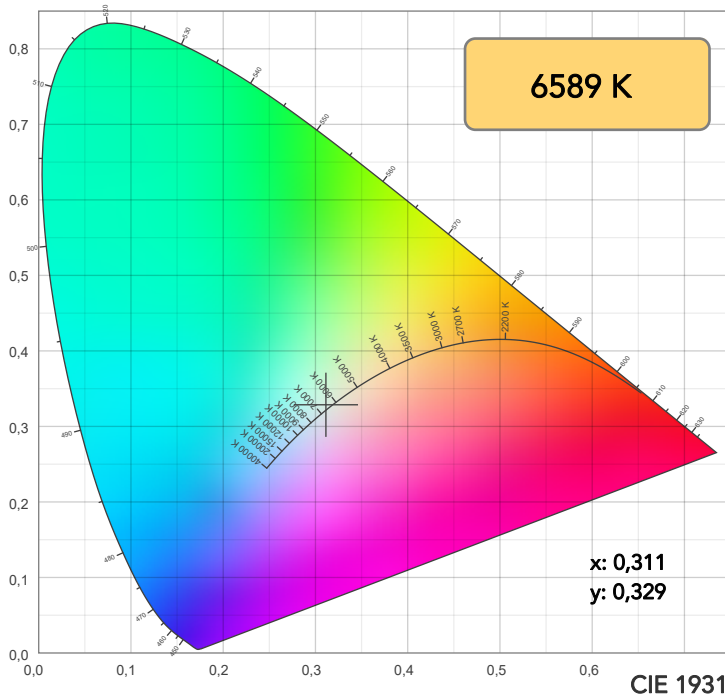
Field angle 10%: 59,8°

Cut off angle 2.5%: 84°

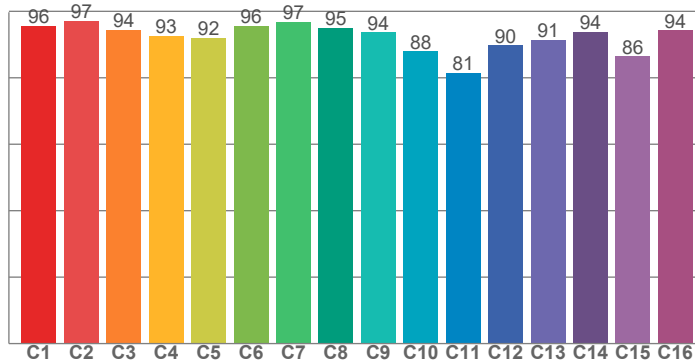
Spectra



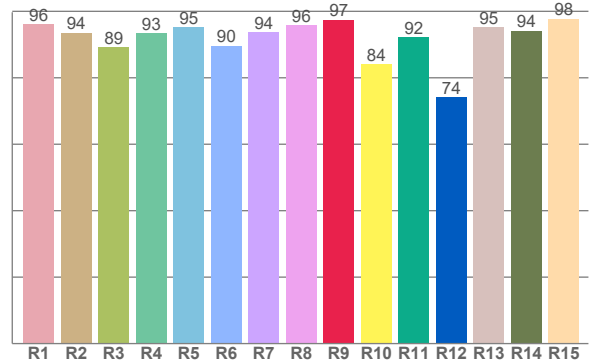
COLOR DETAILS



TM30: 92,3



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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,2 | 93,5 | 89,3 | 93,4 | 95,2 | 89,7 | 93,8 | 95,8 | 97,4 | 84,0 | 92,3 | 74,2 | 95,2 | 94,1 | 97,7 |

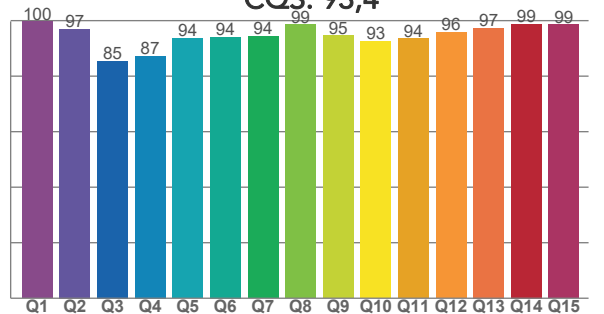
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,6 | 97,2 | 94,4 | 92,6 | 92,0 | 95,6 | 96,8 | 95,0 | 93,7 | 87,9 | 81,5 | 89,7 | 91,4 | 93,8 | 86,5 | 94,2 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 99,6 | 97,0 | 85,5 | 87,3 | 93,6 | 94,1 | 94,3 | 98,6 | 94,6 | 92,5 | 93,6 | 95,8 | 97,4 | 98,8 | 98,6 |

CQS: 93,4



COLOR PARAMETERS

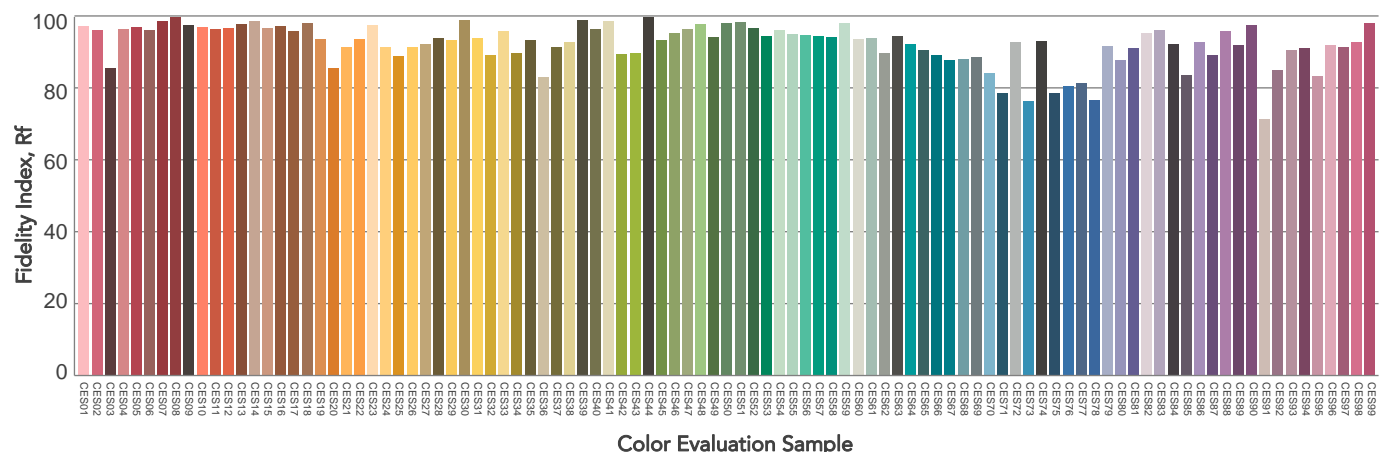
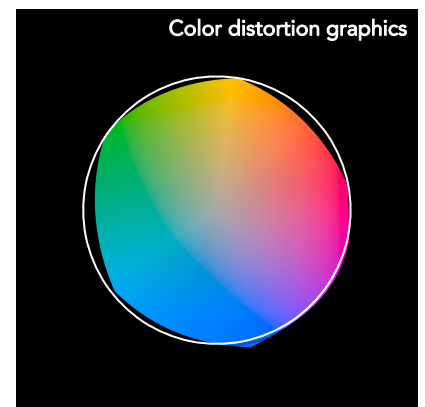
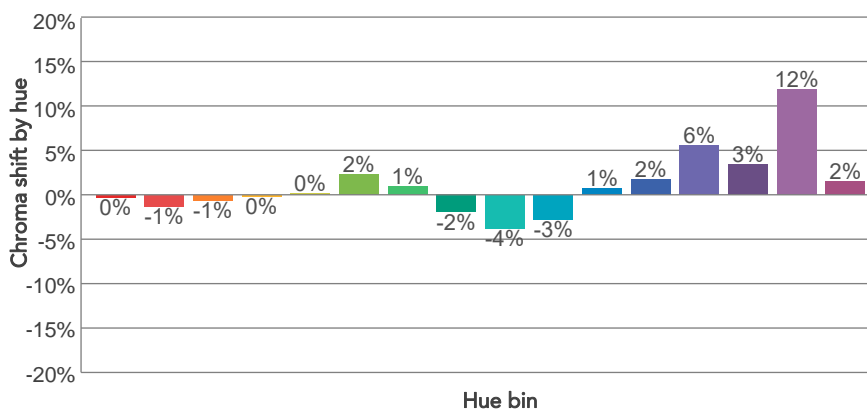
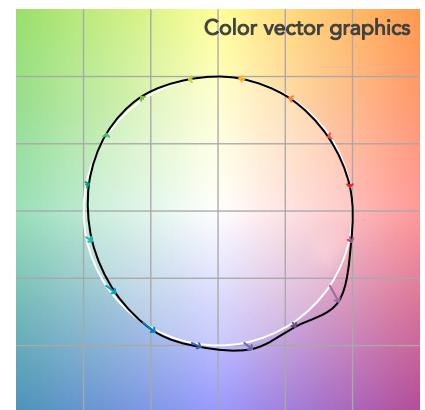
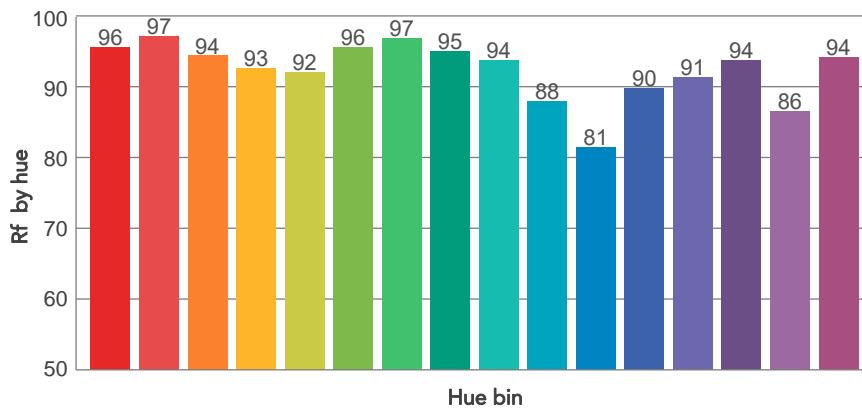
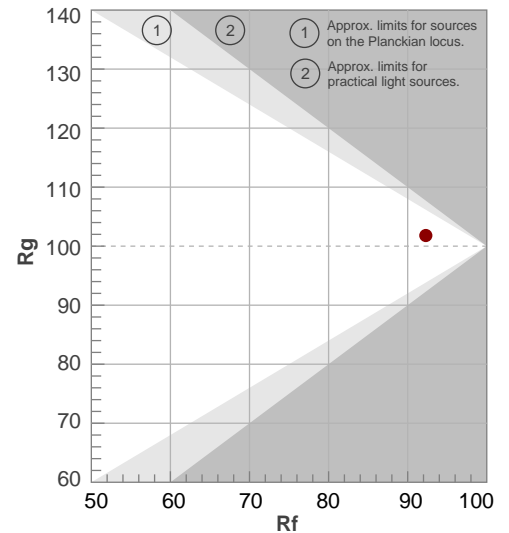
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 6589 K | 93,4 | 97,4 | 92,3 | 101,8 | 93,4 | 98 | 0,311 | 0,329 | 0,0005 |

TM30 DETAILS

Rf 92,3
Fidelity index Rf

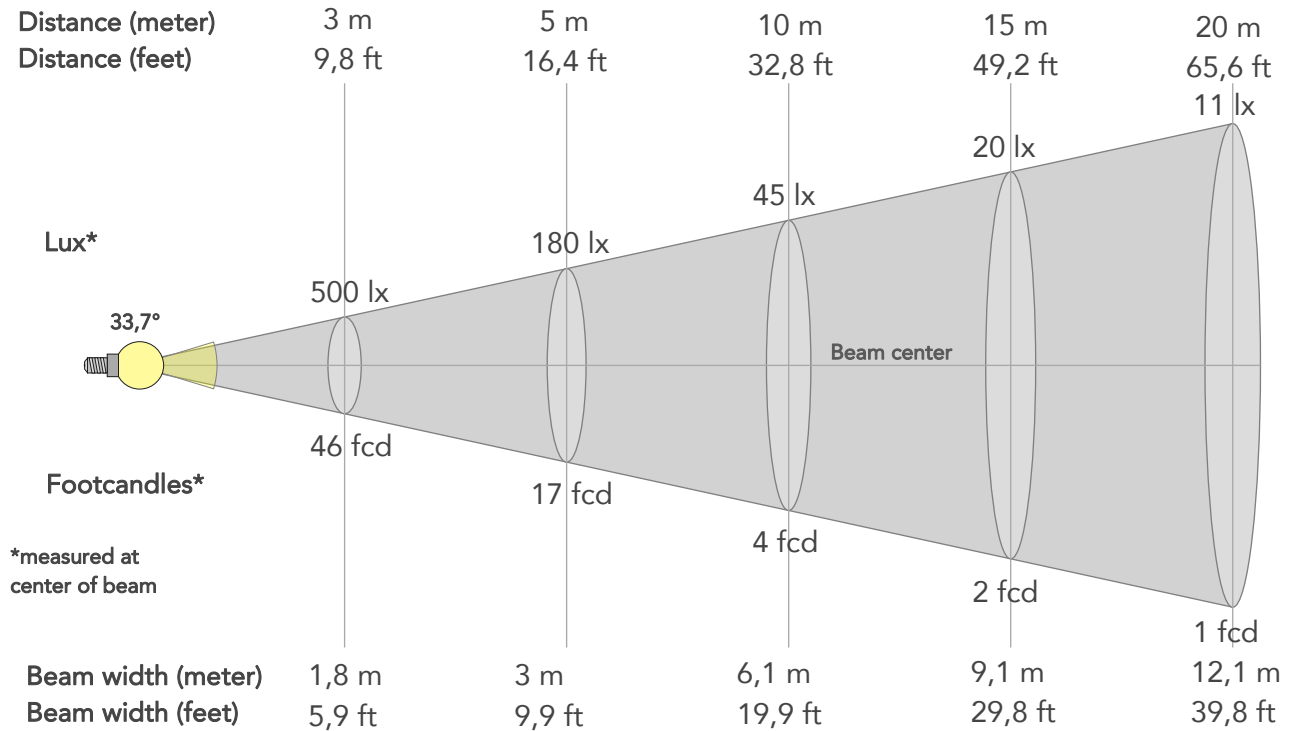
Rg 101,8
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 96 | 0% | -2% |
| 2 | 97 | -1% | 0% |
| 3 | 94 | -1% | 3% |
| 4 | 93 | 0% | 4% |
| 5 | 92 | 0% | 2% |
| 6 | 96 | 2% | 0% |
| 7 | 97 | 1% | -2% |
| 8 | 95 | -2% | -1% |
| 9 | 94 | -4% | 3% |
| 10 | 88 | -3% | 8% |
| 11 | 81 | 1% | 11% |
| 12 | 90 | 2% | 7% |
| 13 | 91 | 6% | 5% |
| 14 | 94 | 3% | 0% |
| 15 | 86 | 12% | -6% |
| 16 | 94 | 2% | -3% |



BEAM DETAILS

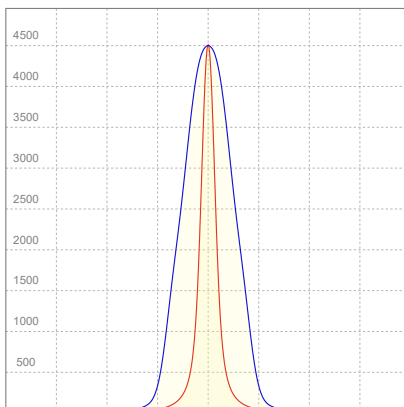
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 33,7° | 59,8° | 84° | 97,4% | 92,3% |



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 | 4501lx | 1125lx | 500lx | 281lx | 180lx | 80lx | 45lx | 20lx | 11lx | 7lx | 5lx | 3lx | 2lx |
| Footcand. | 418fcd | 105fcd | 46fcd | 26fcd | 17fcd | 7fcd | 4fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,6m | 1,2m | 1,8m | 2,4m | 3m | 4,5m | 6,1m | 9,1m | 12,1m | 15,2m | 18,2m | 24,3m | 30,3m |
| Beam wid. | 2ft | 4ft | 5,9ft | 7,9ft | 9,9ft | 14,9ft | 19,9ft | 29,8ft | 39,8ft | 49,7ft | 59,7ft | 79,6ft | 99,5ft |

LINEAR DISTRIBUTION DIAGRAM

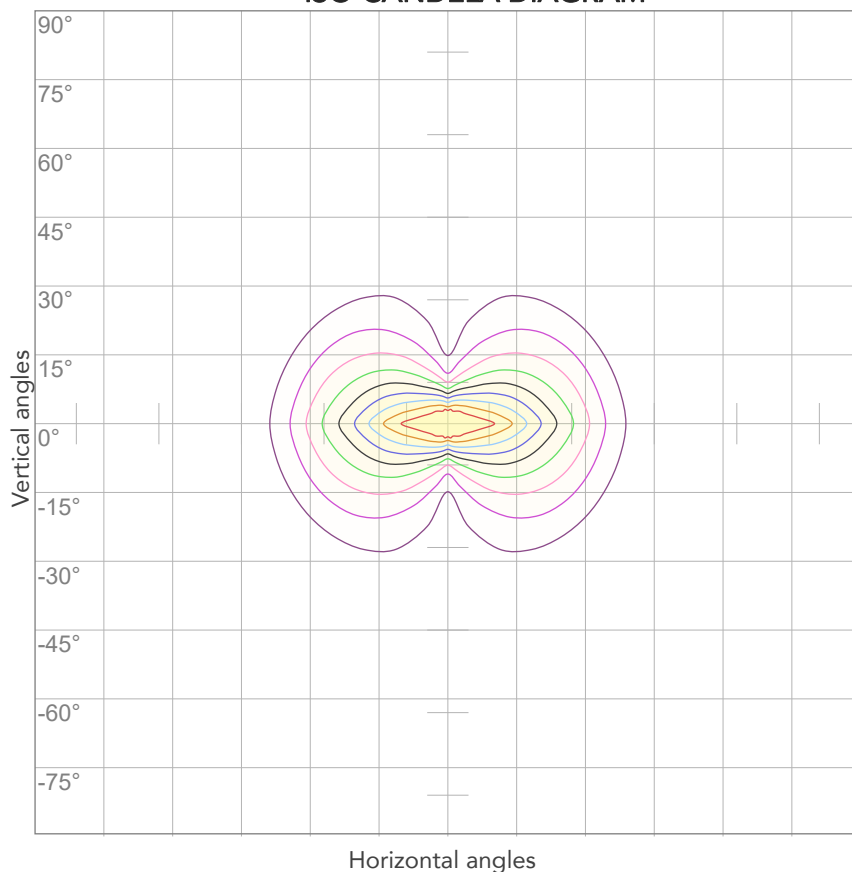


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Efficiency |
|---------------|---------------|-------------|----------|------------|
| 225V | 0,124A | 26,0W | 0,93 | 85lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



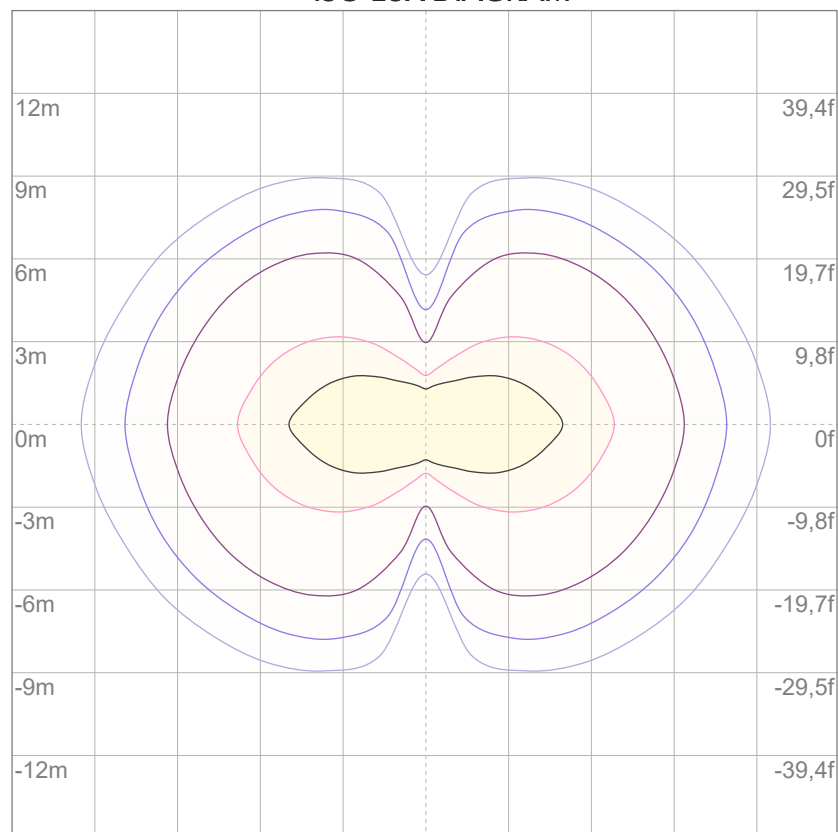
| | |
|-----|---------|
| 10% | 450 cd |
| 20% | 900 cd |
| 30% | 1350 cd |
| 40% | 1800 cd |
| 50% | 2250 cd |
| 60% | 2701 cd |
| 70% | 3151 cd |
| 80% | 3601 cd |

Conditions:

Number of c-planes: 4

Candela at center: 4501 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 1,35 lx |
| 5% | 2,25 lx |
| 10% | 4,50 lx |
| 30% | 13,5 lx |
| 50% | 22,5 lx |

Conditions:

Number of c-planes: 4

Lux at center: 45,0 lx

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



Total lumen output:

1386 lm

Peak candela output:

2280 cd

Light quality:

CRI: 92,9

Color temperature:

6667 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 30°x 60° Filter

Target:

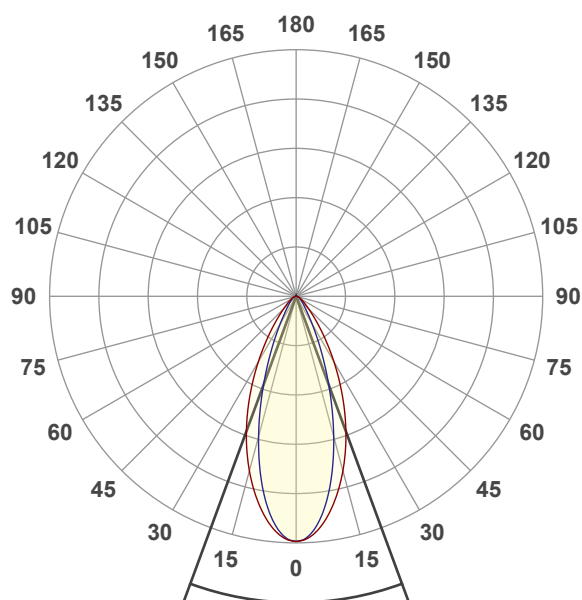
Cold White

Operator:

Salvatore Giglio

Date and time:

20/02/2024 11:38:19

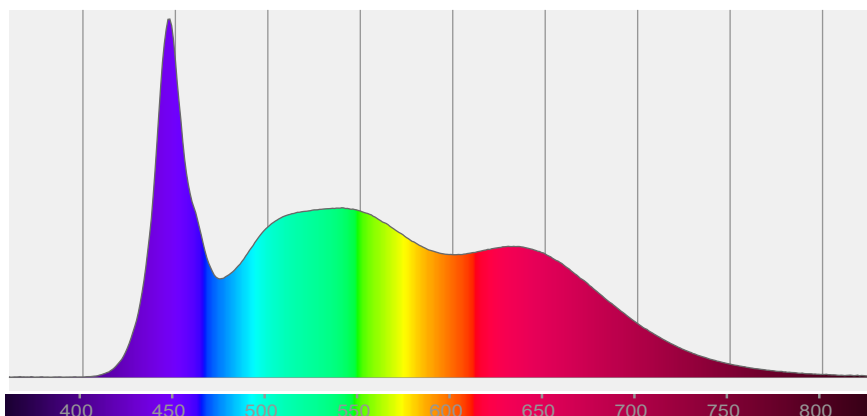


Beam angle 50%: 40,4°

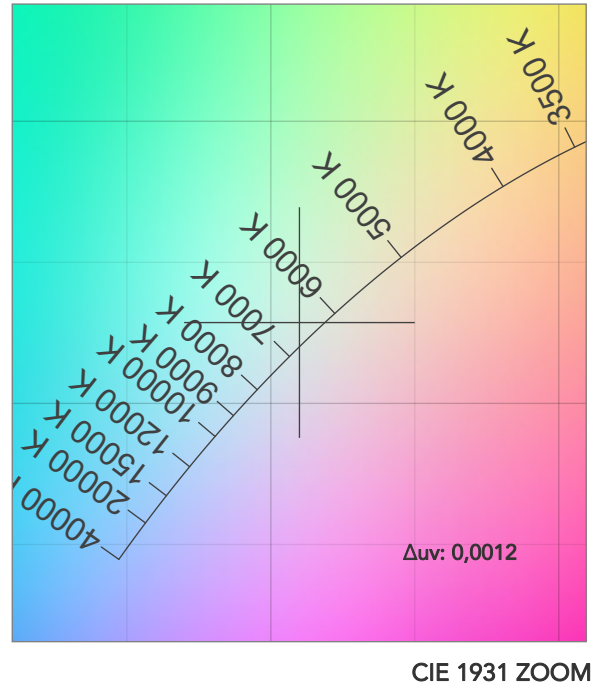
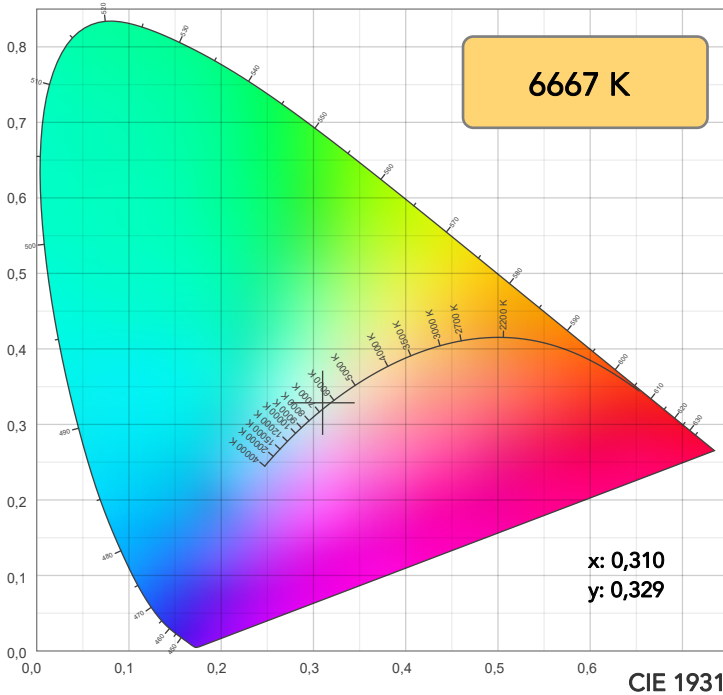
Field angle 10%: 74,1°

Cut off angle 2.5%: 111,7°

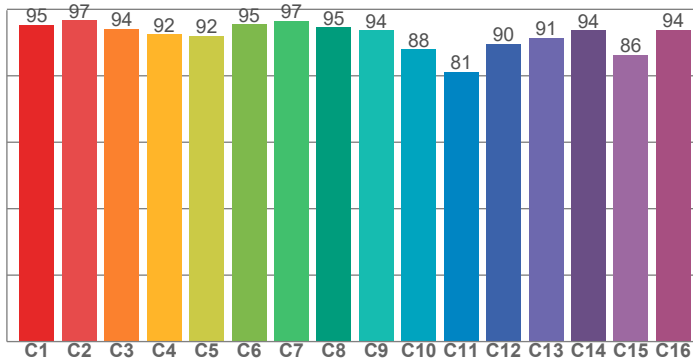
Spectra



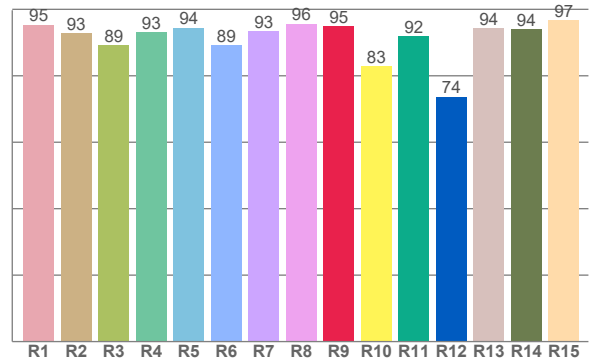
COLOR DETAILS



TM30: 92,1



CRI: 92,9 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,3 | 92,9 | 89,1 | 93,0 | 94,5 | 89,1 | 93,5 | 95,6 | 95,0 | 82,9 | 91,9 | 73,7 | 94,3 | 94,1 | 96,8 |

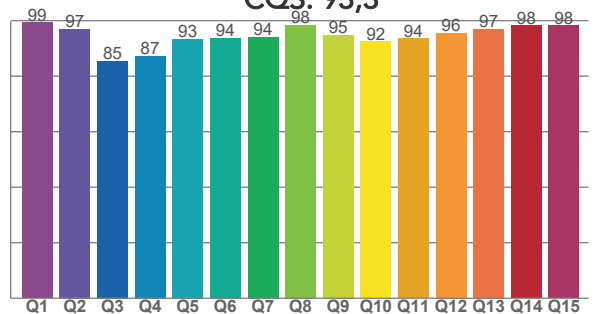
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,2 | 96,7 | 94,2 | 92,5 | 92,0 | 95,5 | 96,6 | 94,6 | 93,6 | 87,9 | 81,2 | 89,6 | 91,4 | 93,7 | 86,4 | 93,8 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 99,4 | 96,9 | 85,5 | 87,3 | 93,4 | 93,7 | 94,0 | 98,4 | 94,8 | 92,4 | 93,5 | 95,5 | 96,9 | 98,2 | 98,2 |

CQS: 93,3



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 |
| 6667 K | 92,9 | 95,0 | 92,1 | 101,6 | 93,3 | 98 | 0,310 | 0,329 | 0,0012 |

TM30 DETAILS

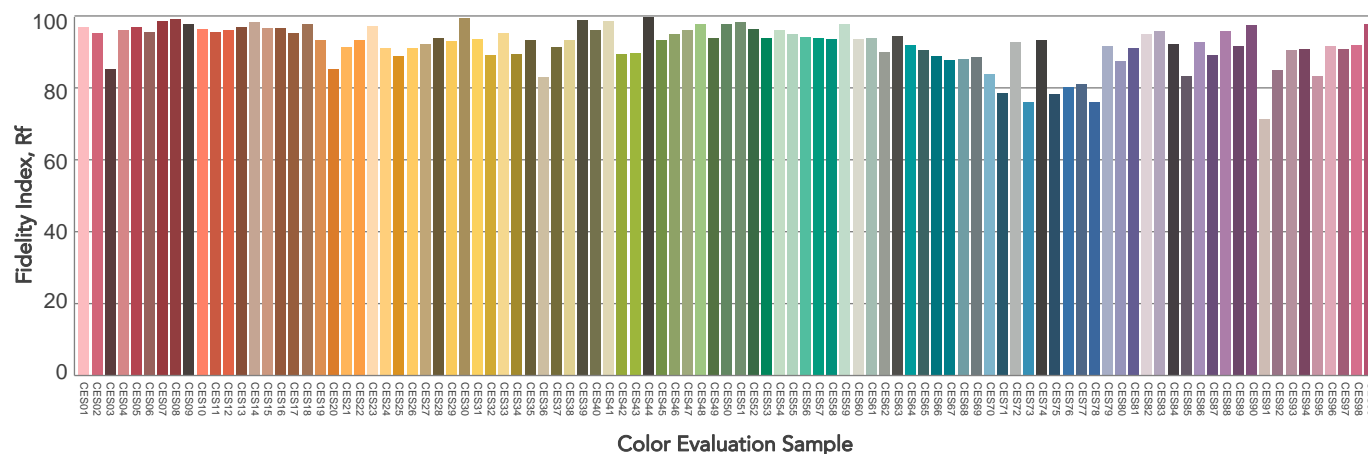
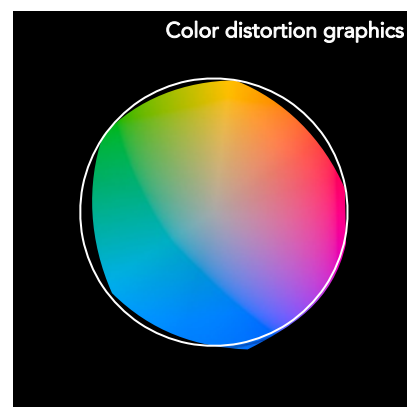
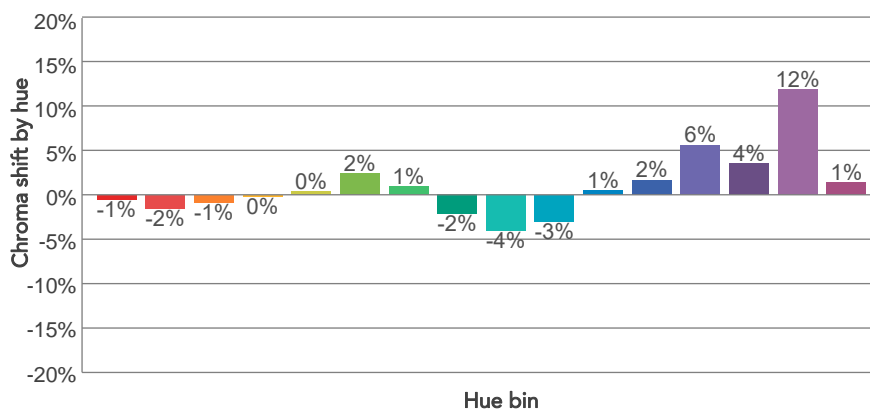
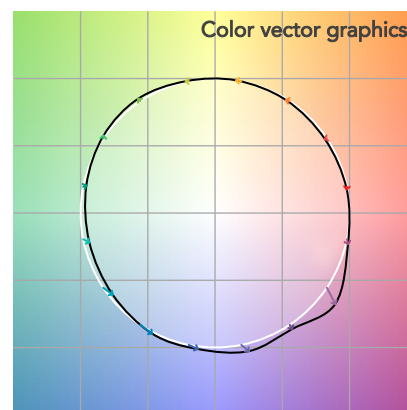
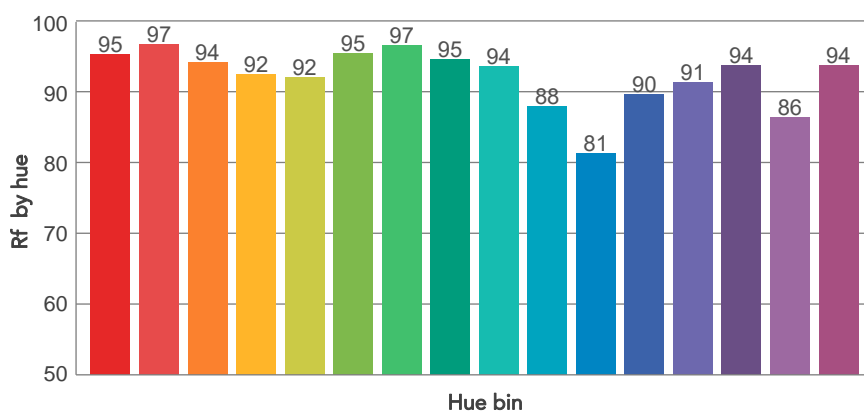
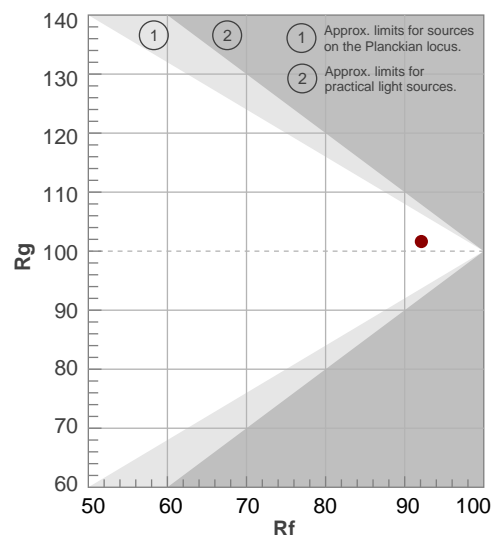
Rf 92,1

Fidelity index R_f

Rg 101,6

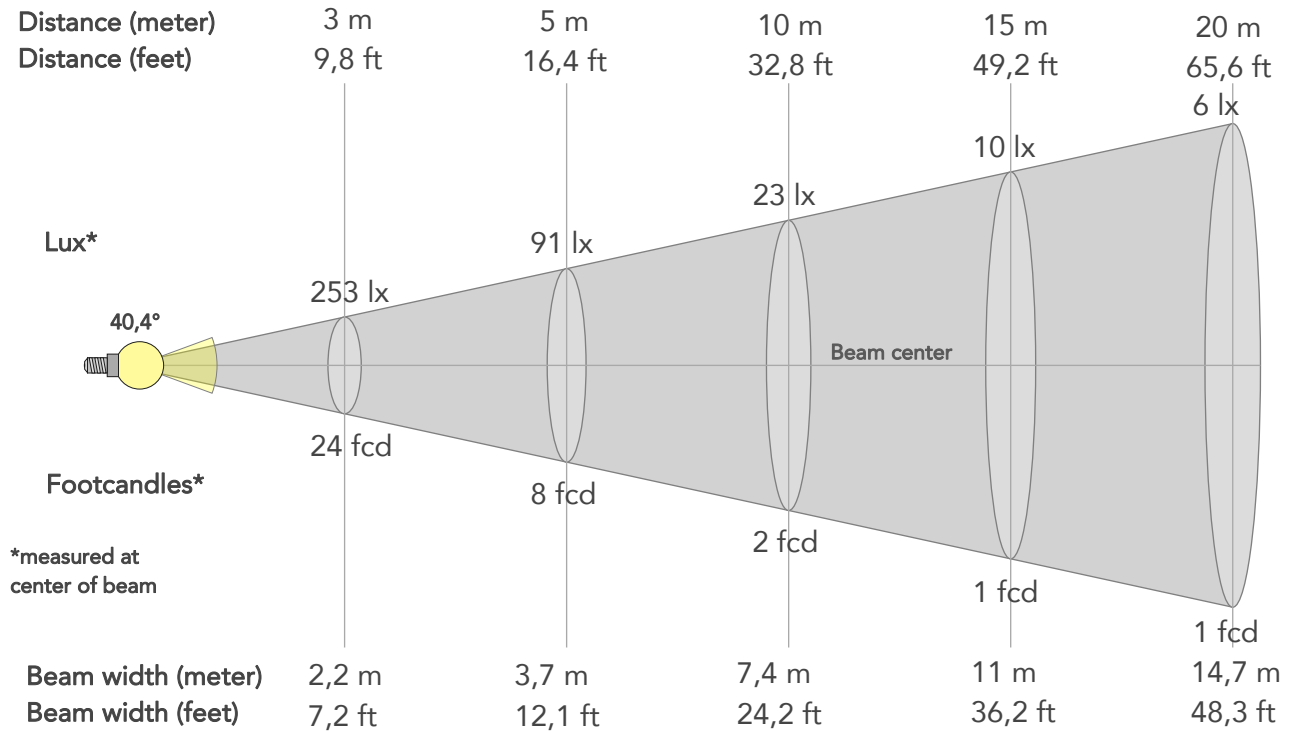
Gammut index

| | | Graphic shifts (%) | |
|---------|-------|--------------------|-----|
| Hue Bin | R_f | Chroma | Hue |
| 1 | 95 | -1% | -2% |
| 2 | 97 | -2% | 0% |
| 3 | 94 | -1% | 3% |
| 4 | 92 | 0% | 4% |
| 5 | 92 | 0% | 2% |
| 6 | 95 | 2% | 0% |
| 7 | 97 | 1% | -2% |
| 8 | 95 | -2% | -1% |
| 9 | 94 | -4% | 3% |
| 10 | 88 | -3% | 8% |
| 11 | 81 | 1% | 11% |
| 12 | 90 | 2% | 7% |
| 13 | 91 | 6% | 5% |
| 14 | 94 | 4% | 0% |
| 15 | 86 | 12% | -7% |
| 16 | 94 | 1% | -3% |



BEAM DETAILS

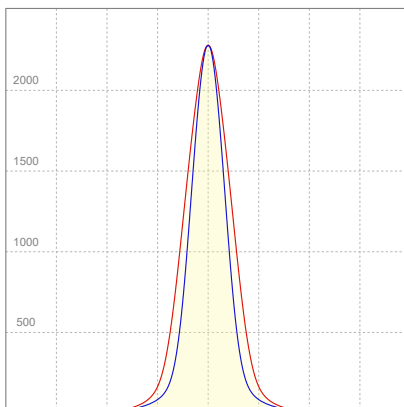
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 40,4° | 74,1° | 111,7° | 95,6% | 88,5% |



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 | 2278lx | 570lx | 253lx | 142lx | 91lx | 41lx | 23lx | 10lx | 6lx | 4lx | 3lx | 1lx | 1lx |
| Footcand. | 212fcd | 53fcd | 24fcd | 13fcd | 8fcd | 4fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,7m | 1,5m | 2,2m | 2,9m | 3,7m | 5,5m | 7,4m | 11m | 14,7m | 18,4m | 22,1m | 29,5m | 36,8m |
| Beam wid. | 2,4ft | 4,9ft | 7,2ft | 9,6ft | 12,1ft | 18,1ft | 24,2ft | 36,2ft | 48,3ft | 60,4ft | 72,5ft | 96,6ft | 120,8ft |

LINEAR DISTRIBUTION DIAGRAM

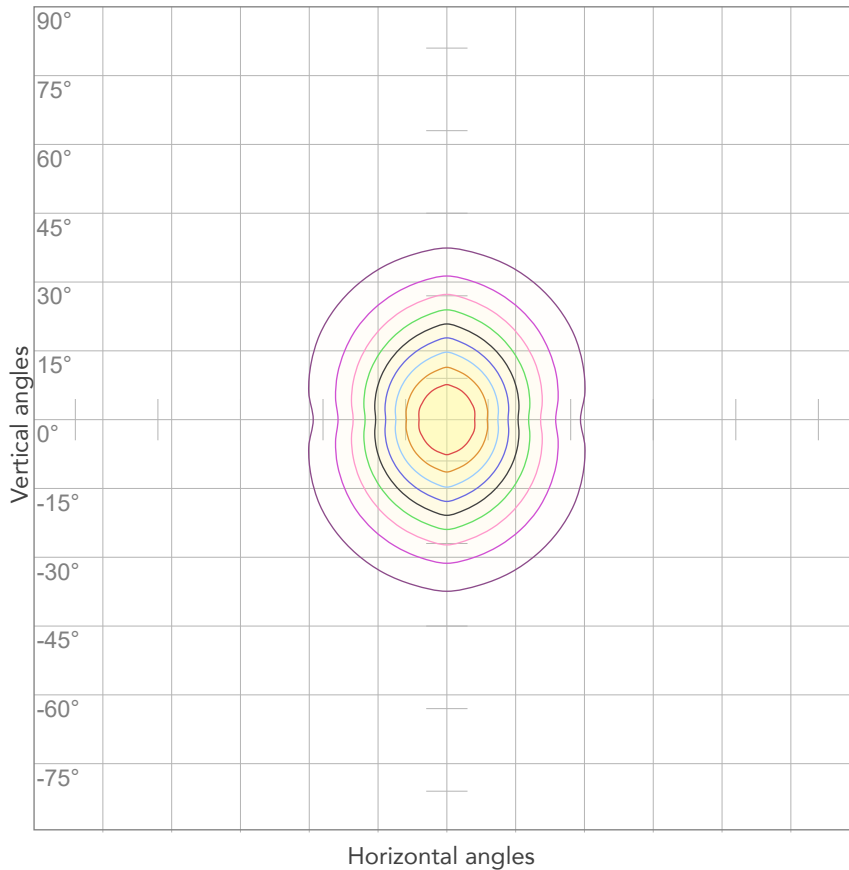


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Efficiency |
|---------------|---------------|-------------|----------|------------|
| 225V | 0,125A | 26,2W | 0,93 | 53lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



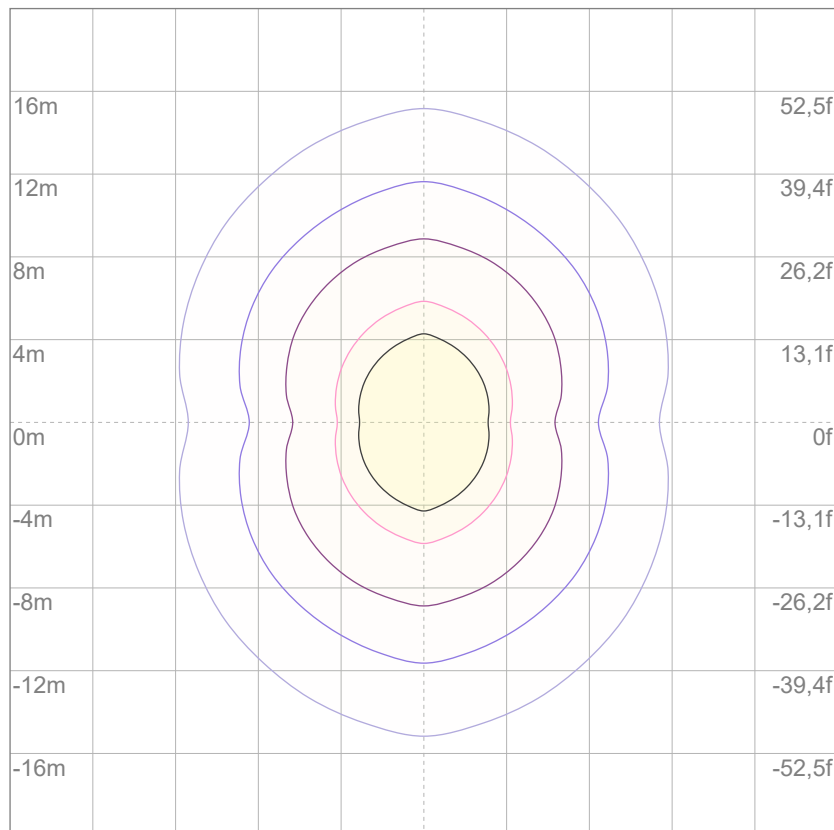
| | |
|-----|---------|
| 10% | 228 cd |
| 20% | 456 cd |
| 30% | 684 cd |
| 40% | 911 cd |
| 50% | 1139 cd |
| 60% | 1367 cd |
| 70% | 1595 cd |
| 80% | 1823 cd |

Conditions:

Number of c-planes: 4

Candela at center: 2278 cd

ISO LUX DIAGRAM



| | |
|-----|----------|
| 3% | 0,684 lx |
| 5% | 1,14 lx |
| 10% | 2,28 lx |
| 30% | 6,84 lx |
| 50% | 11,4 lx |

Conditions:

Number of c-planes: 4

Lux at center: 22,8 lx

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



Total lumen output:

1247 lm

Peak candela output:

24427 cd

Light quality:

CRI: 95,8

Color temperature:

2731 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10°

Target:

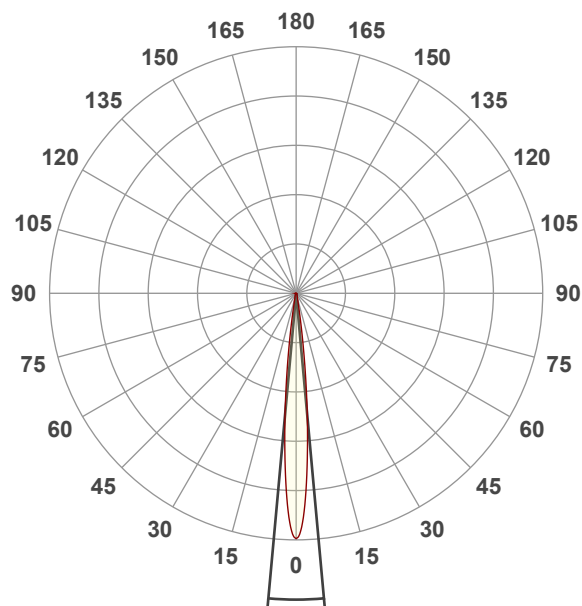
2700K

Operator:

Salvatore Giglio

Date and time:

19/02/2024 16:17:45

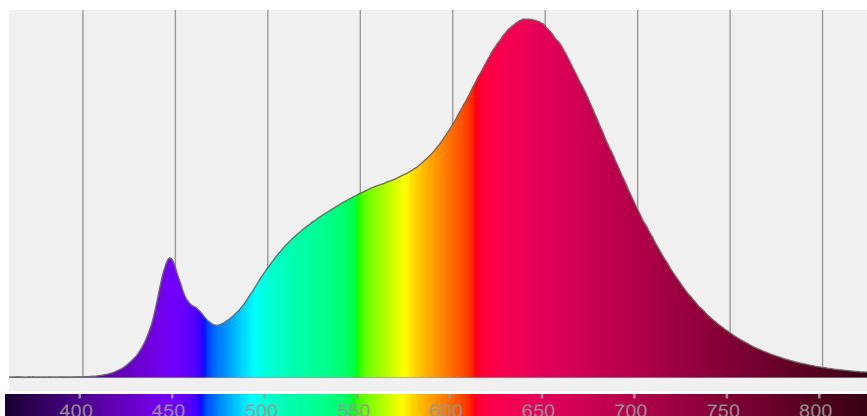


Beam angle 50%: 10,4°

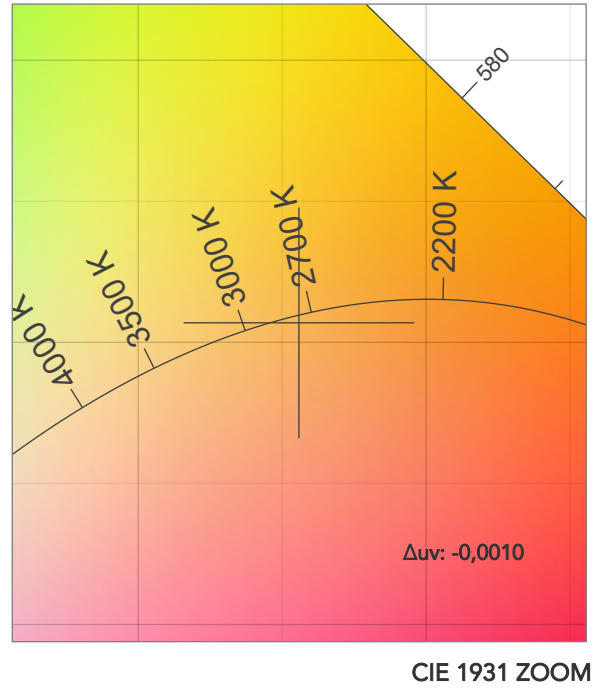
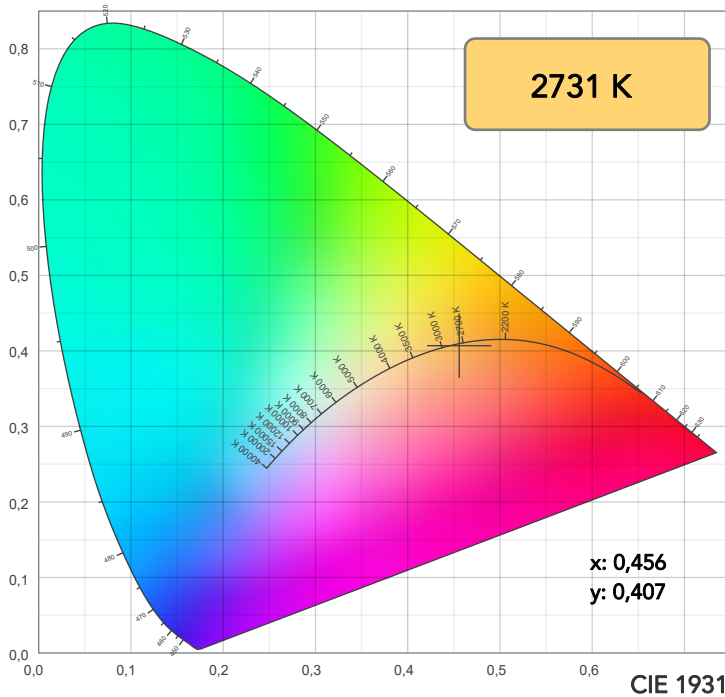
Field angle 10%: 18,7°

Cut off angle 2.5%: 27,6°

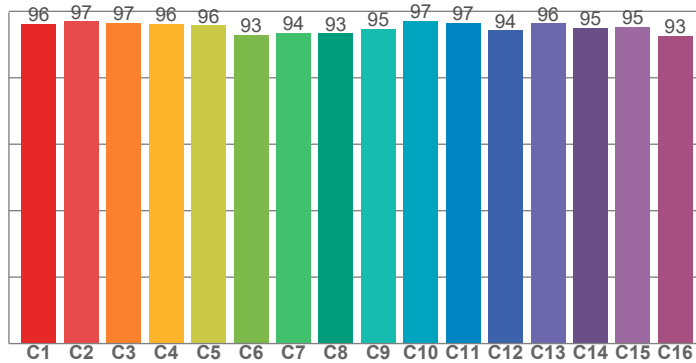
Spectra



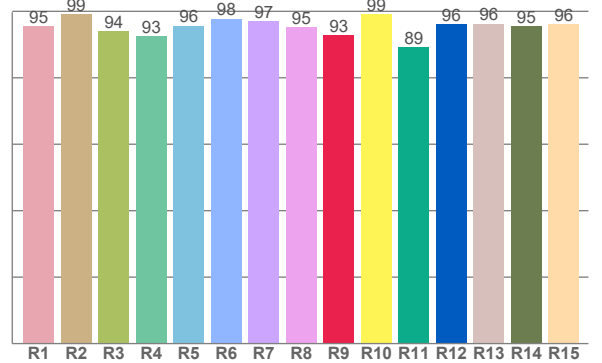
COLOR DETAILS



TM30: 95,5



CRI: 95,8 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,5 | 99,2 | 93,9 | 92,5 | 95,7 | 97,7 | 96,9 | 95,2 | 92,9 | 99,1 | 89,2 | 96,0 | 96,2 | 95,5 | 96,1 |

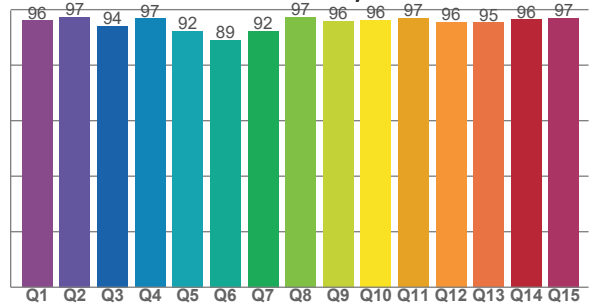
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,2 | 97,0 | 96,5 | 96,2 | 95,7 | 92,9 | 93,5 | 93,4 | 94,7 | 97,1 | 96,6 | 94,3 | 96,4 | 95,0 | 95,4 | 92,6 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,1 | 97,3 | 94,1 | 96,7 | 92,3 | 89,1 | 92,3 | 97,3 | 96,0 | 96,3 | 96,9 | 95,5 | 95,3 | 96,4 | 96,9 |

CQS: 94,4



COLOR PARAMETERS

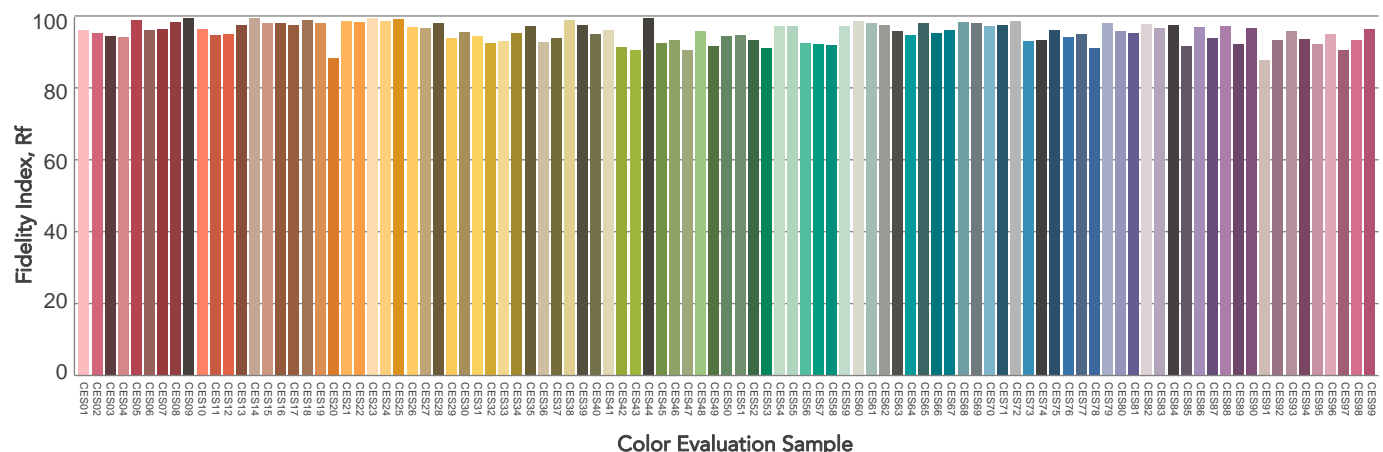
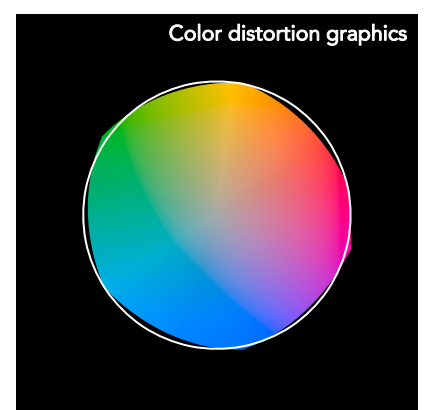
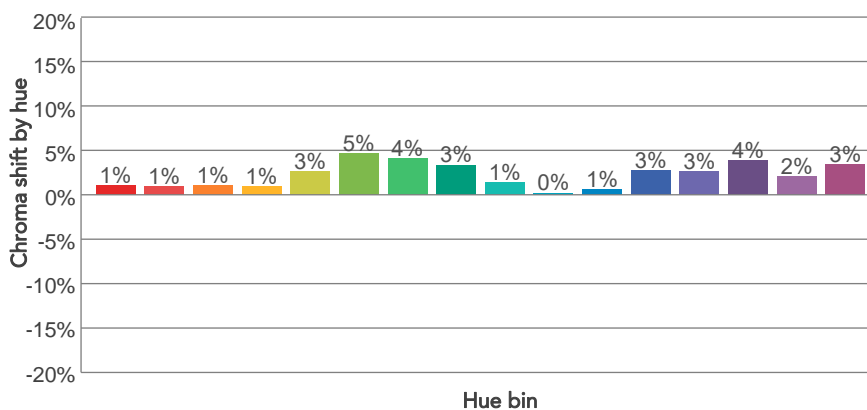
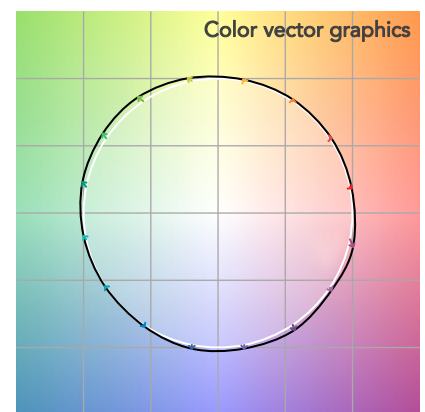
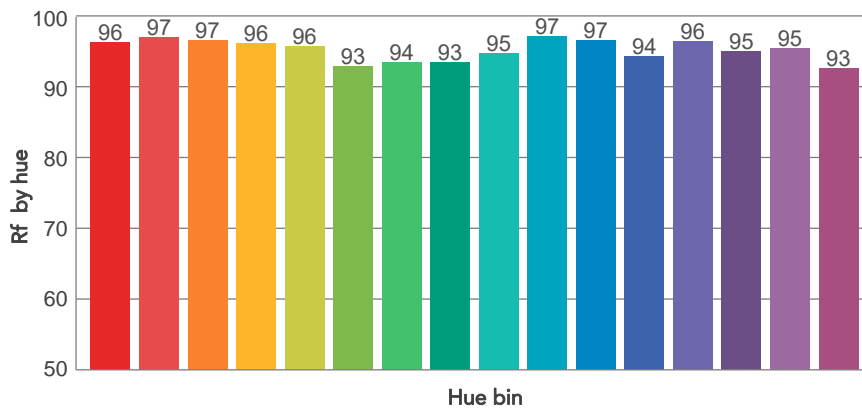
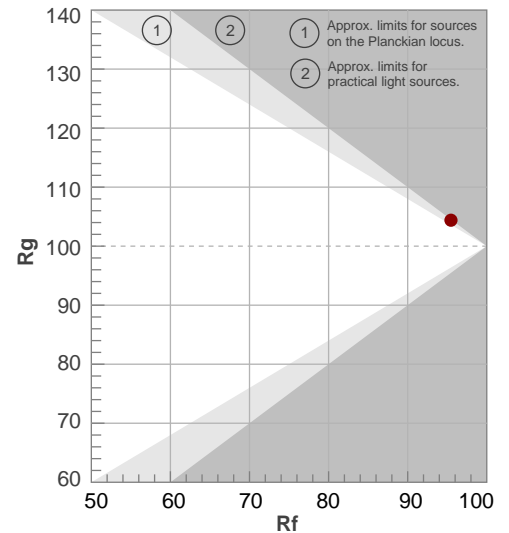
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 2731 K | 95,8 | 92,9 | 95,5 | 104,4 | 94,4 | 97 | 0,456 | 0,407 | -0,0010 |

TM30 DETAILS

Rf 95,5
Fidelity index Rf

Rg 104,4
Gammut index

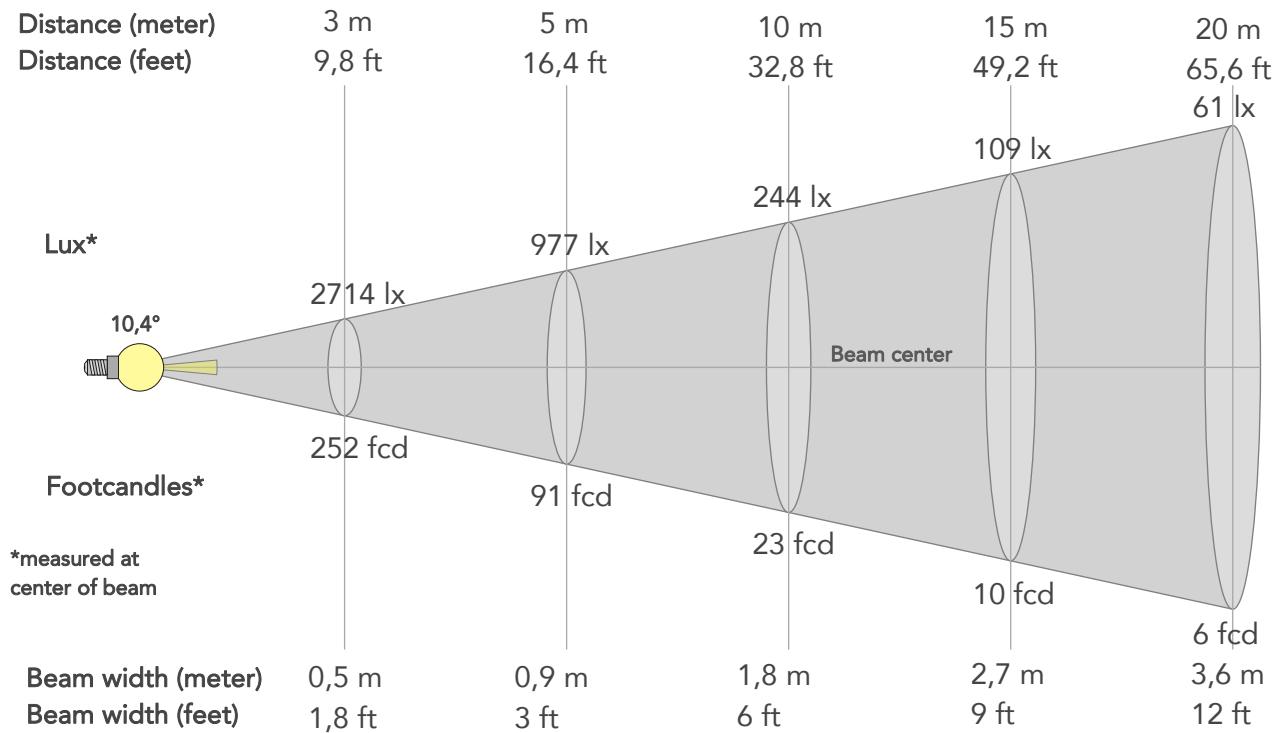
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 96 | 1% | -1% |
| 2 | 97 | 1% | -1% |
| 3 | 97 | 1% | 1% |
| 4 | 96 | 1% | 1% |
| 5 | 96 | 3% | 2% |
| 6 | 93 | 5% | 2% |
| 7 | 94 | 4% | -1% |
| 8 | 93 | 3% | -3% |
| 9 | 95 | 1% | -3% |
| 10 | 97 | 0% | -1% |
| 11 | 97 | 1% | 2% |
| 12 | 94 | 3% | 1% |
| 13 | 96 | 3% | -1% |
| 14 | 95 | 4% | -1% |
| 15 | 95 | 2% | -1% |
| 16 | 93 | 3% | -5% |



BEAM DETAILS



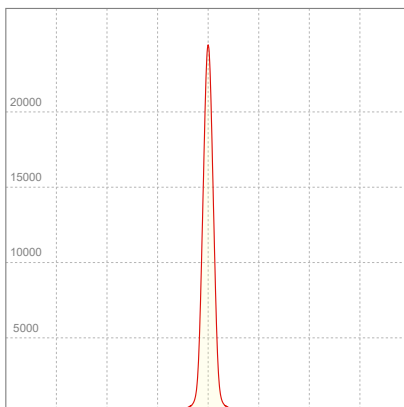
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 10,4° | 18,7° | 27,6° | 97,0% | 93,9% |



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 | 24427lx | 6107lx | 2714lx | 1527lx | 977lx | 434lx | 244lx | 109lx | 61lx | 39lx | 27lx | 15lx | 10lx |
| Footcand. | 2269fcd | 567fcd | 252fcd | 142fcd | 91fcd | 40fcd | 23fcd | 10fcd | 6fcd | 4fcd | 3fcd | 1fcd | 1fcd |
| Beam wid. | 0,2m | 0,4m | 0,5m | 0,7m | 0,9m | 1,4m | 1,8m | 2,7m | 3,6m | 4,6m | 5,5m | 7,3m | 9,1m |
| Beam wid. | 0,6ft | 1,2ft | 1,8ft | 2,4ft | 3ft | 4,5ft | 6ft | 9ft | 12ft | 14,9ft | 17,9ft | 23,9ft | 29,9ft |

LINEAR DISTRIBUTION DIAGRAM

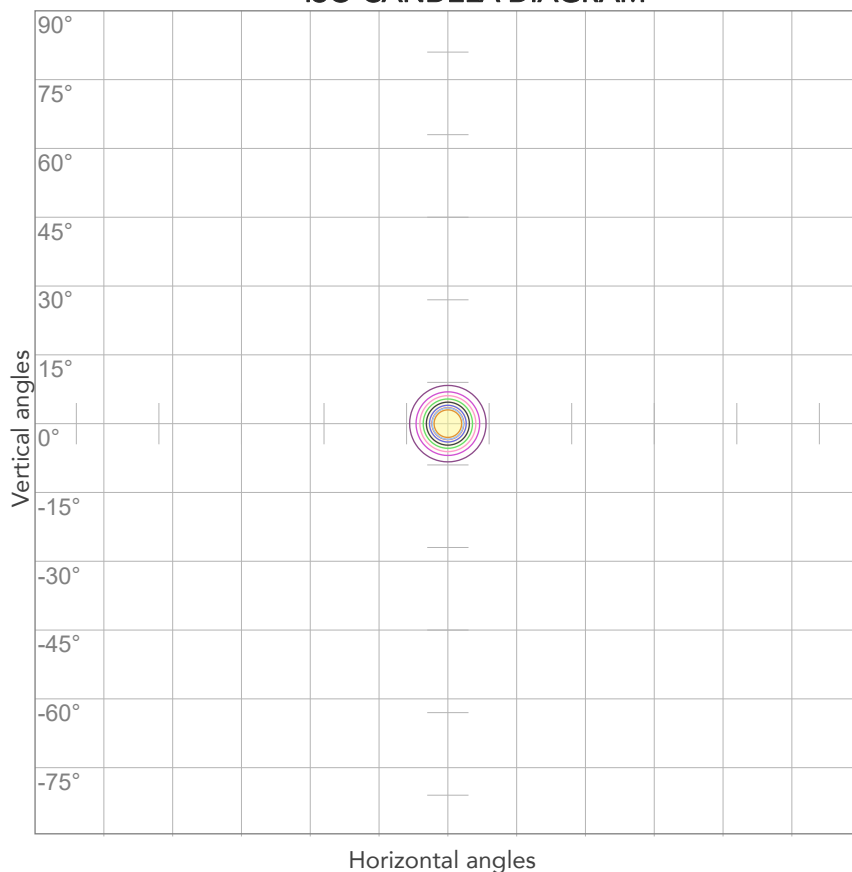


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Effeciency |
|---------------|---------------|-------------|----------|------------|
| 227V | 0,131A | 27,9W | 0,94 | 45lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



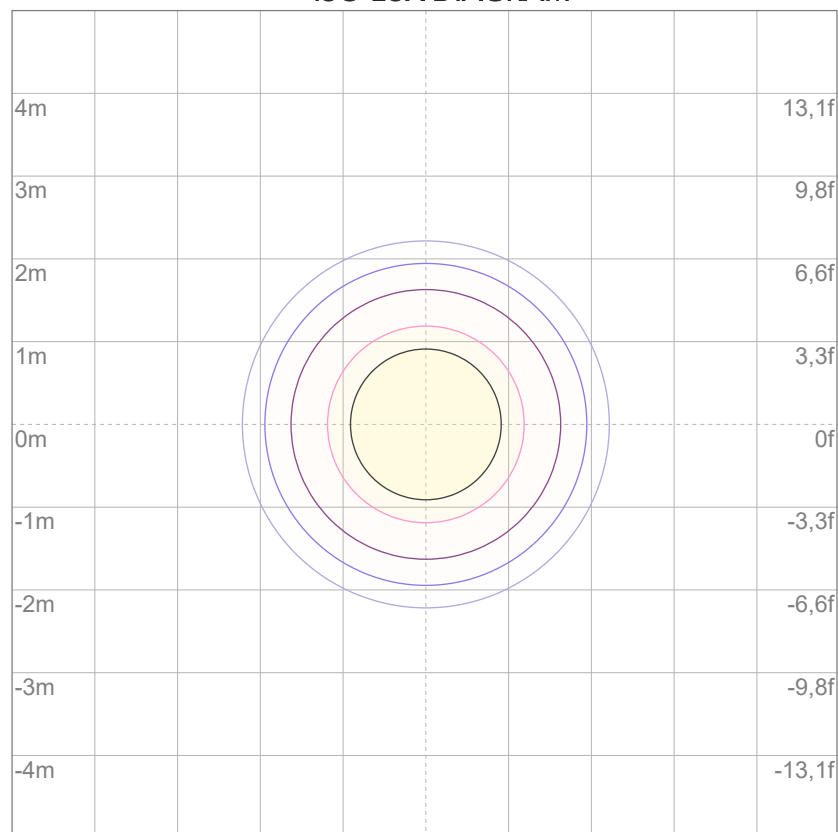
| | |
|-----|----------|
| 10% | 2443 cd |
| 20% | 4885 cd |
| 30% | 7328 cd |
| 40% | 9771 cd |
| 50% | 12213 cd |
| 60% | 14656 cd |
| 70% | 17099 cd |
| 80% | 19541 cd |

Conditions:

Number of c-planes: 2

Candela at center: 24427 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 7,33 lx |
| 5% | 12,2 lx |
| 10% | 24,4 lx |
| 30% | 73,3 lx |
| 50% | 122 lx |

Conditions:

Number of c-planes: 2

Lux at center: 244 lx

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



Total lumen output:

1134 lm

Peak candela output:

4644 cd

Light quality:

CRI: 95,8

Color temperature:

2726 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 20° Filter

Target:

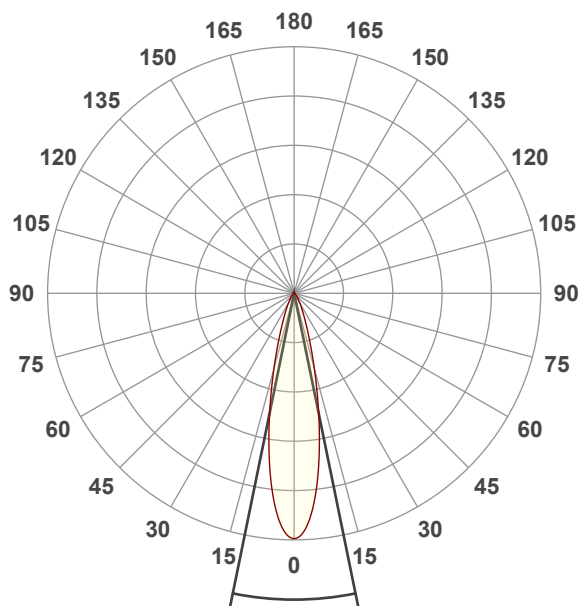
2700K

Operator:

Salvatore Giglio

Date and time:

19/02/2024 17:15:46

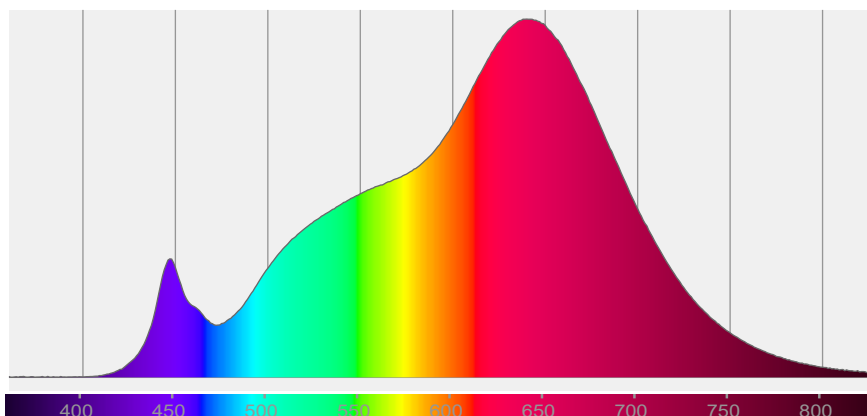


Beam angle 50%: 23,1°

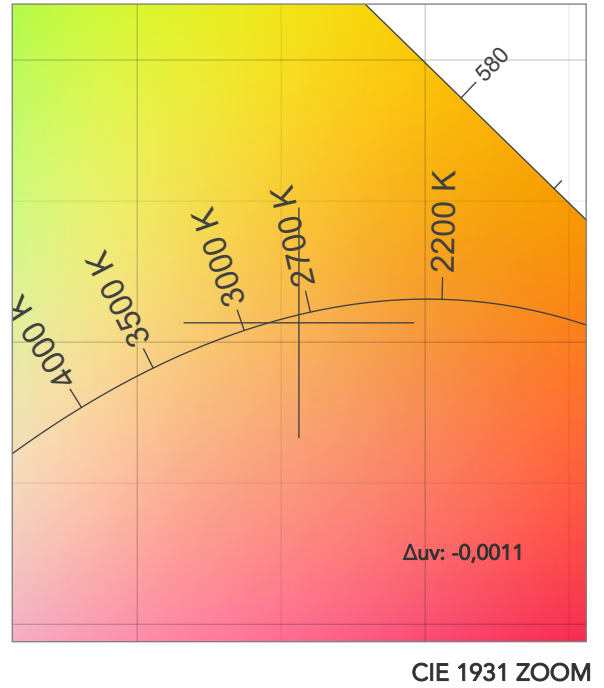
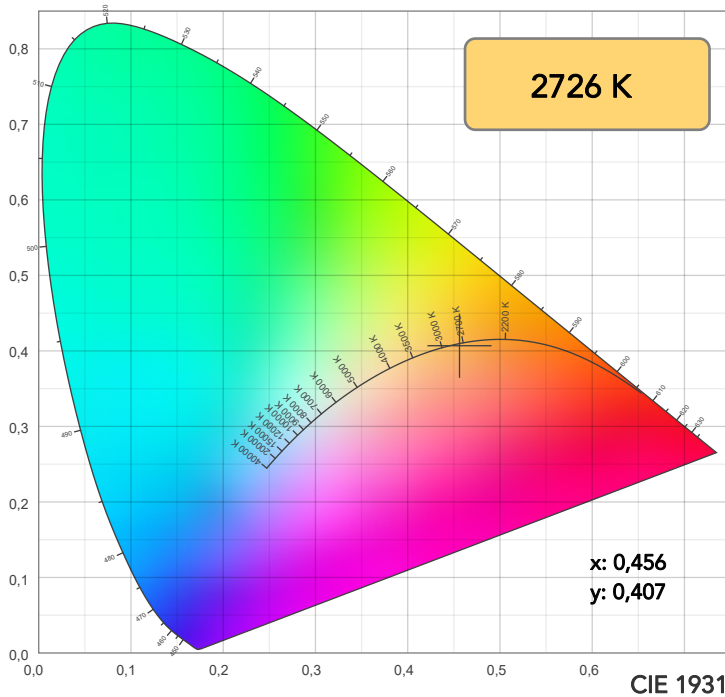
Field angle 10%: 46,8°

Cut off angle 2.5%: 72,5°

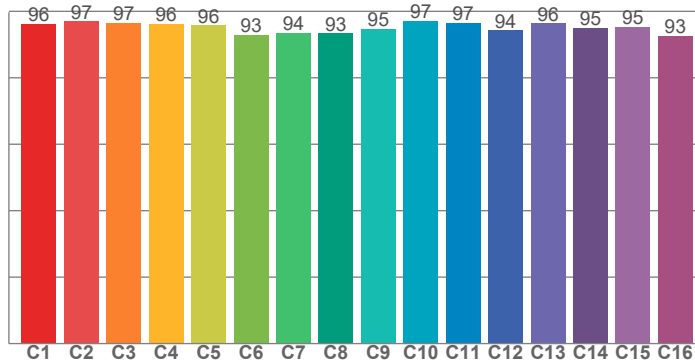
Spectra



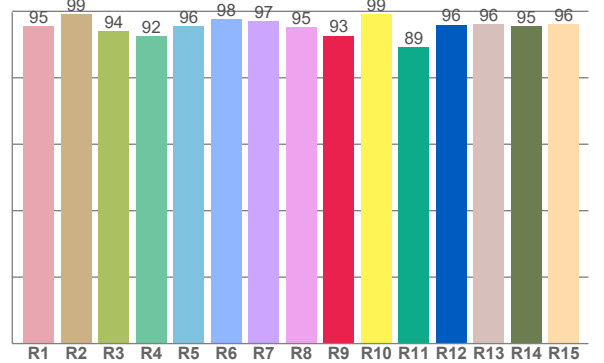
COLOR DETAILS



TM30: 95,5



CRI: 95,8 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,4 | 99,1 | 94,0 | 92,5 | 95,6 | 97,6 | 97,0 | 95,1 | 92,7 | 99,2 | 89,2 | 96,0 | 96,1 | 95,5 | 96,1 |

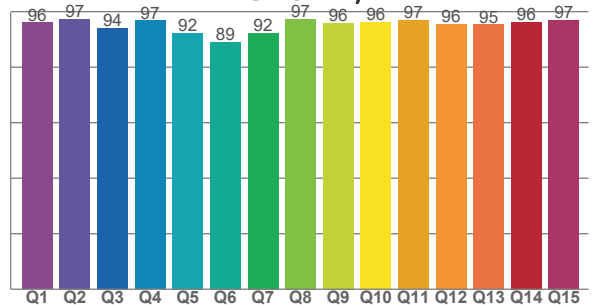
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,2 | 97,0 | 96,5 | 96,2 | 95,8 | 92,9 | 93,5 | 93,4 | 94,7 | 97,1 | 96,6 | 94,3 | 96,4 | 95,0 | 95,4 | 92,6 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,1 | 97,3 | 94,1 | 96,8 | 92,3 | 89,1 | 92,3 | 97,3 | 96,0 | 96,3 | 96,9 | 95,5 | 95,3 | 96,3 | 96,9 |

CQS: 94,4

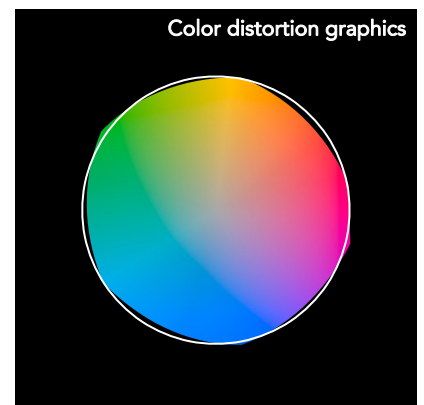
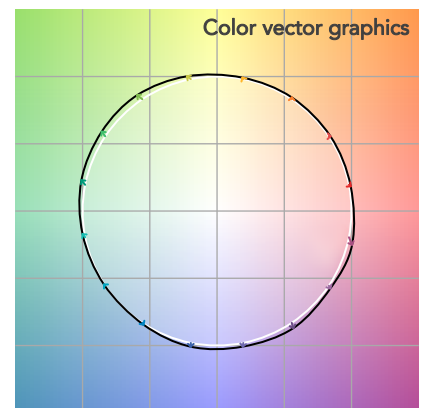


COLOR PARAMETERS

| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 2726 K | 95,8 | 92,7 | 95,5 | 104,4 | 94,4 | 97 | 0,456 | 0,407 | -0,0011 |

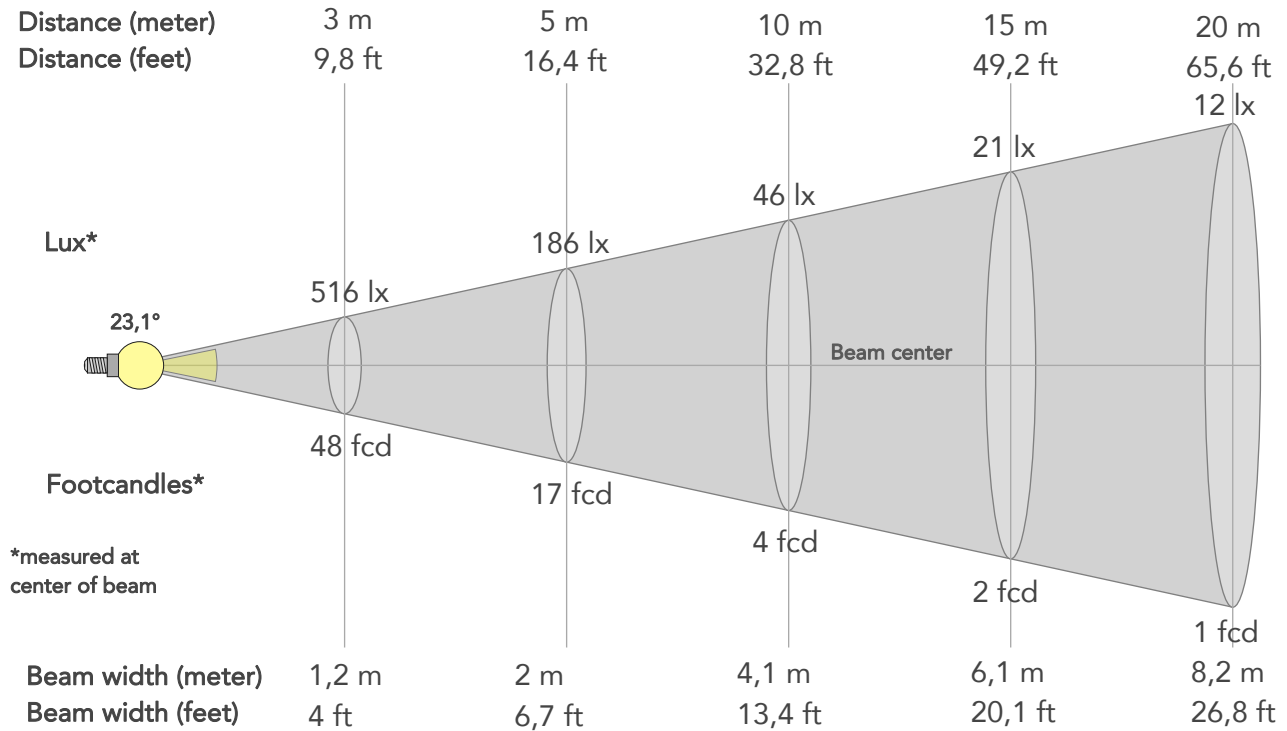
Gammut index

Figure 1 is a graph showing the relationship between R_g (Y-axis, ranging from 60 to 140) and R_f (X-axis, ranging from 50 to 100). The graph illustrates the Planckian locus and the limits for sources on the Planckian locus. The Planckian locus is represented by a dashed line. Two shaded regions, labeled 1 and 2, represent the approximate limits for sources. Region 1 is the area between the Planckian locus and the upper boundary. Region 2 is the area between the Planckian locus and the lower boundary. A red dot is plotted at approximately $R_f = 95$ and $R_g = 105$.



BEAM DETAILS

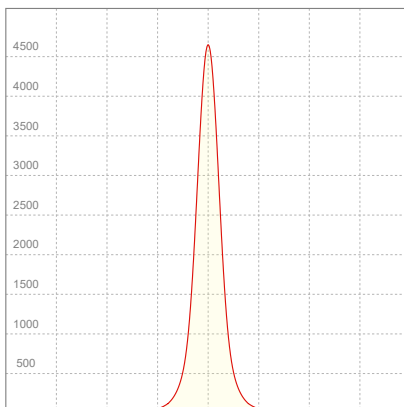
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 23,1° | 46,8° | 72,5° | 97,2% | 93,0% |



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 | 4644lx | 1161lx | 516lx | 290lx | 186lx | 83lx | 46lx | 21lx | 12lx | 7lx | 5lx | 3lx | 2lx |
| Footcand. | 431fcd | 108fcd | 48fcd | 27fcd | 17fcd | 8fcd | 4fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,4m | 0,8m | 1,2m | 1,6m | 2m | 3,1m | 4,1m | 6,1m | 8,2m | 10,2m | 12,3m | 16,4m | 20,4m |
| Beam wid. | 1,3ft | 2,7ft | 4ft | 5,4ft | 6,7ft | 10,1ft | 13,4ft | 20,1ft | 26,8ft | 33,5ft | 40,2ft | 53,6ft | 67,1ft |

LINEAR DISTRIBUTION DIAGRAM

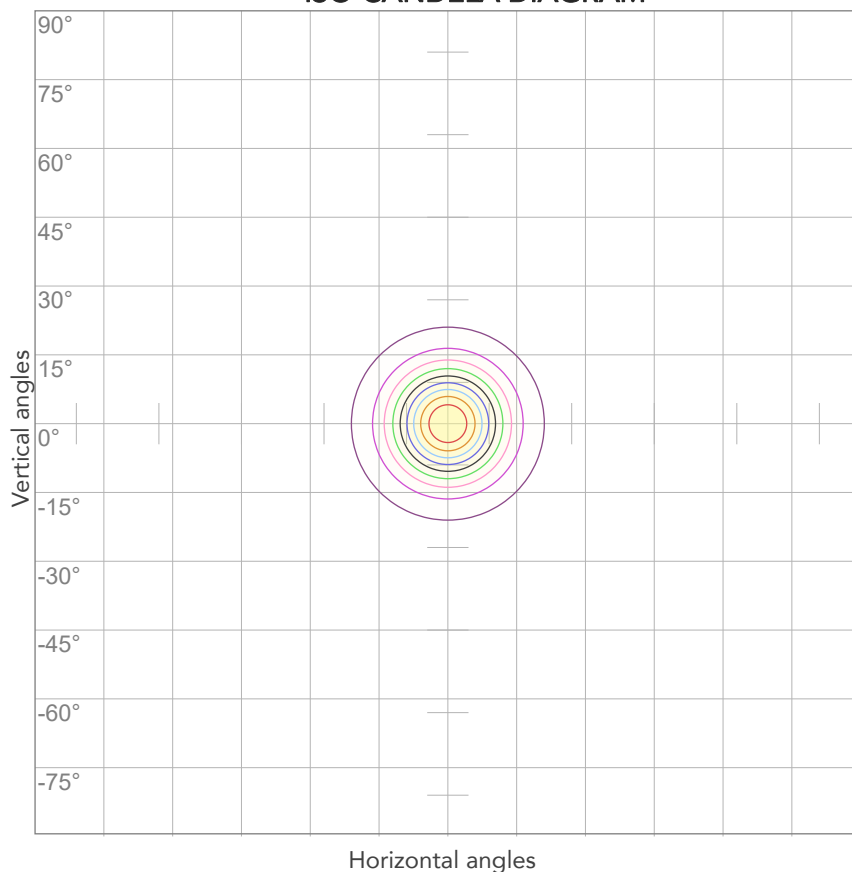


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Effeciency |
|---------------|---------------|-------------|----------|------------|
| 226V | 0,131A | 27,9W | 0,94 | 41lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



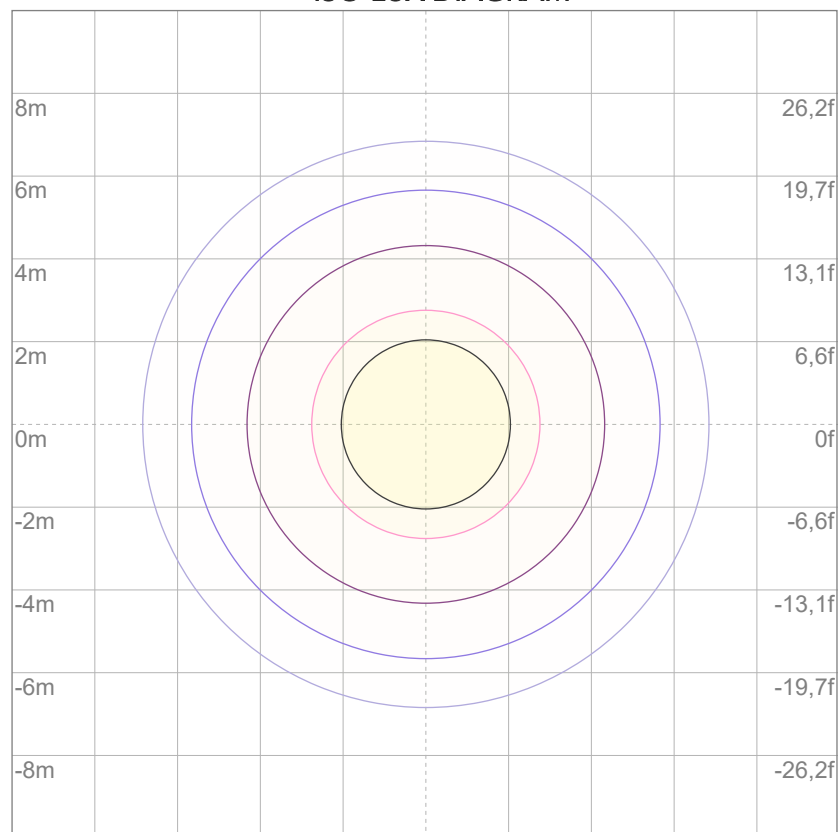
| | |
|-----|---------|
| 10% | 464 cd |
| 20% | 929 cd |
| 30% | 1393 cd |
| 40% | 1857 cd |
| 50% | 2322 cd |
| 60% | 2786 cd |
| 70% | 3251 cd |
| 80% | 3715 cd |

Conditions:

Number of c-planes: 2

Candela at center: 4644 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 1,39 lx |
| 5% | 2,32 lx |
| 10% | 4,64 lx |
| 30% | 13,9 lx |
| 50% | 23,2 lx |

Conditions:

Number of c-planes: 2

Lux at center: 46,4 lx

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



Total lumen output:

1082 lm

Peak candela output:

1338 cd

Light quality:

CRI: 95,7

Color temperature:

2720 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 40° Filter

Target:

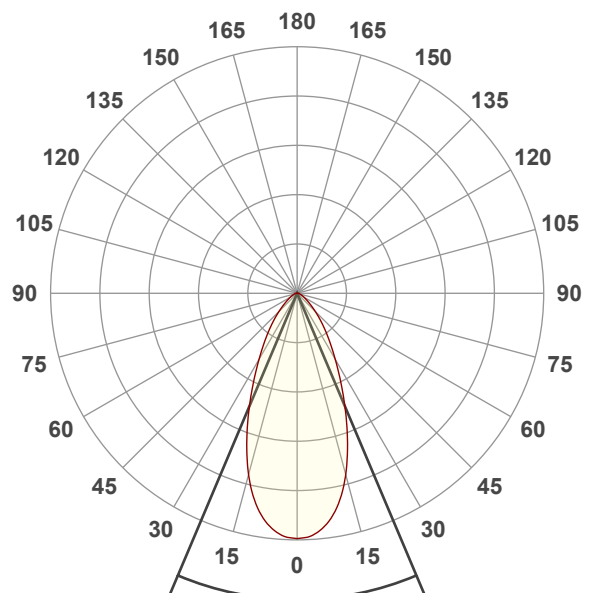
2700K

Operator:

Salvatore Giglio

Date and time:

19/02/2024 17:44:43

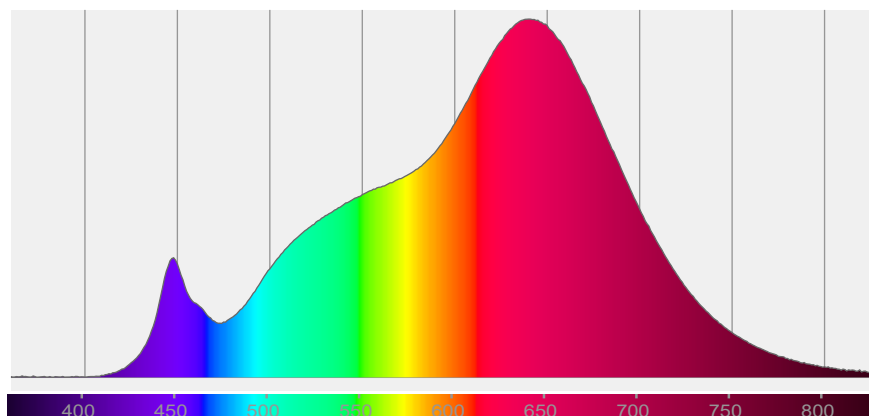


Beam angle 50%: 45,8°

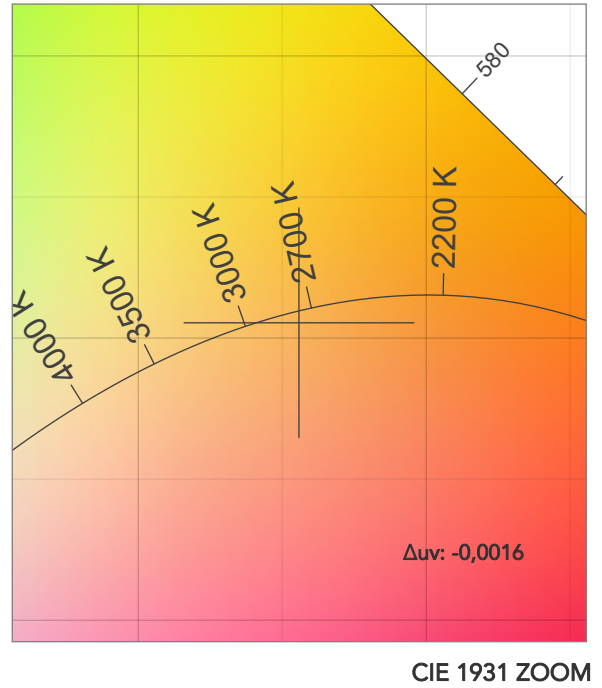
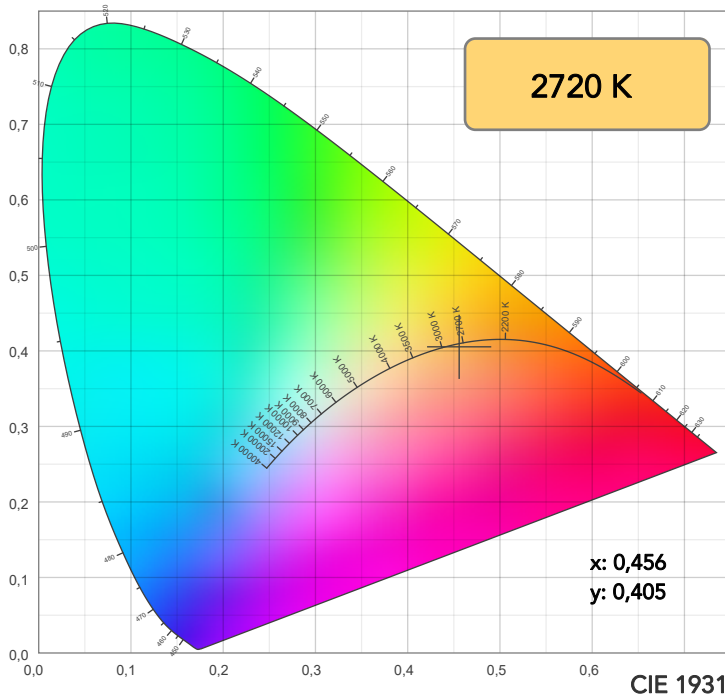
Field angle 10%: 91,1°

Cut off angle 2.5%: 128,1°

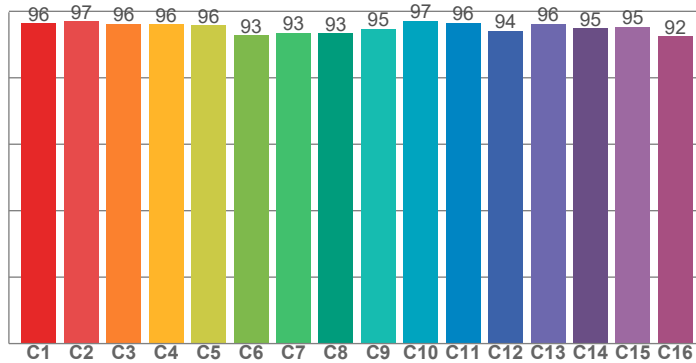
Spectra



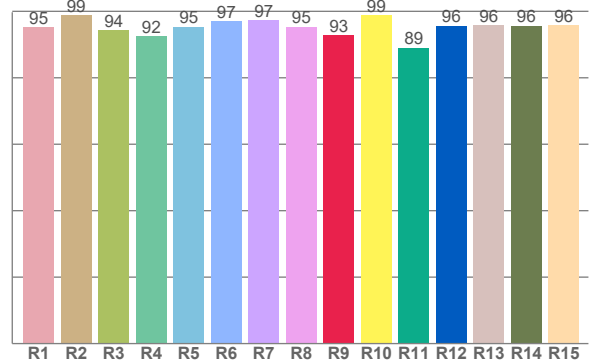
COLOR DETAILS



TM30: 95,4



CRI: 95,7 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,2 | 98,7 | 94,4 | 92,5 | 95,3 | 97,1 | 97,3 | 95,3 | 92,8 | 98,9 | 89,1 | 95,7 | 95,8 | 95,7 | 95,8 |

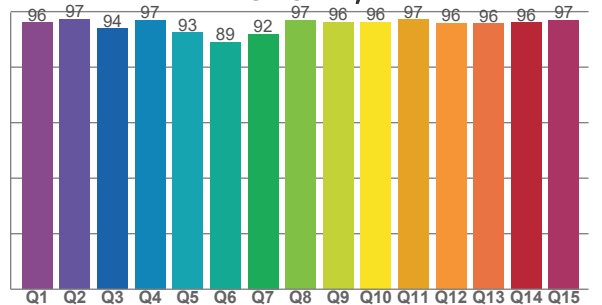
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,3 | 97,0 | 96,3 | 96,1 | 95,7 | 92,8 | 93,5 | 93,3 | 94,8 | 97,1 | 96,5 | 94,2 | 96,2 | 94,8 | 95,4 | 92,5 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,1 | 97,2 | 93,9 | 97,0 | 92,5 | 89,1 | 91,9 | 96,9 | 96,2 | 96,2 | 97,1 | 95,9 | 95,7 | 96,0 | 96,9 |

CQS: 94,4



COLOR PARAMETERS

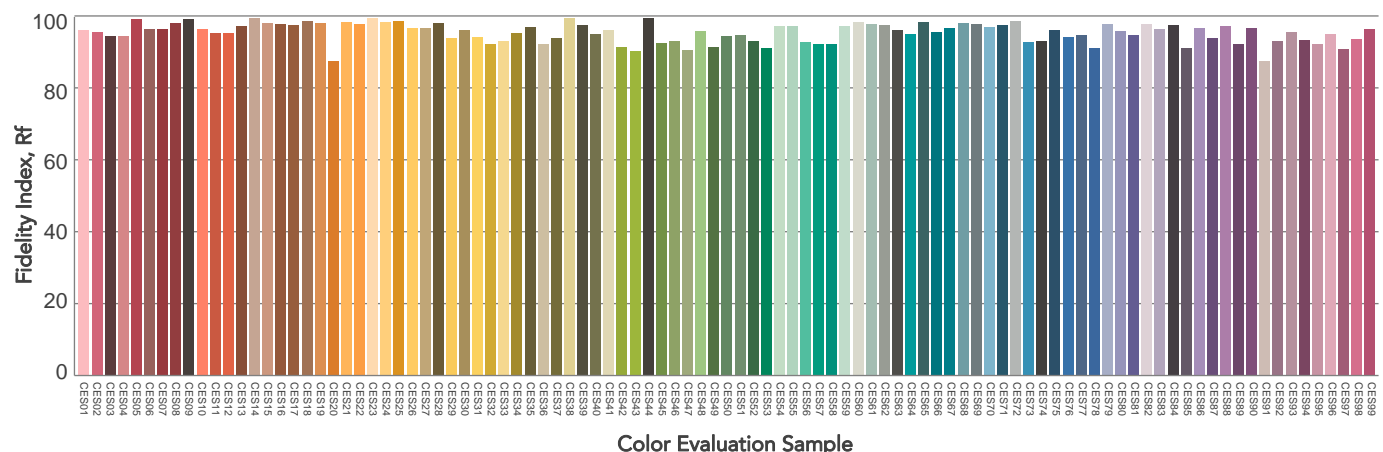
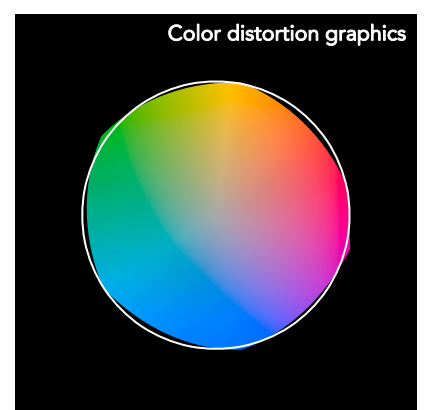
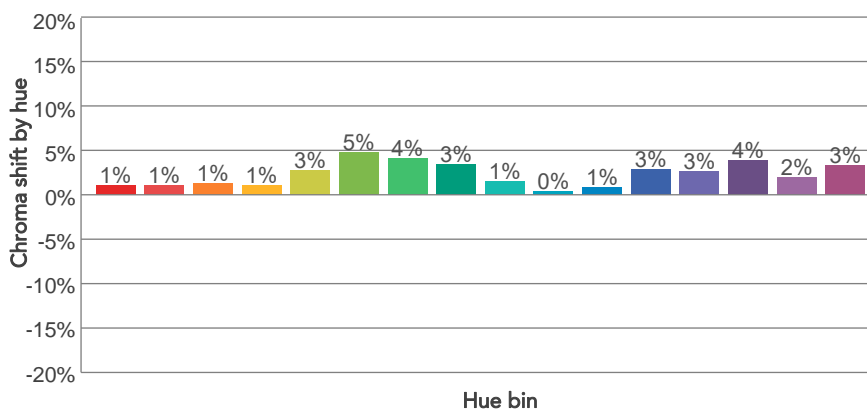
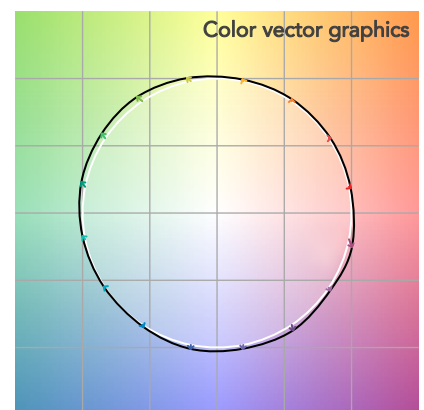
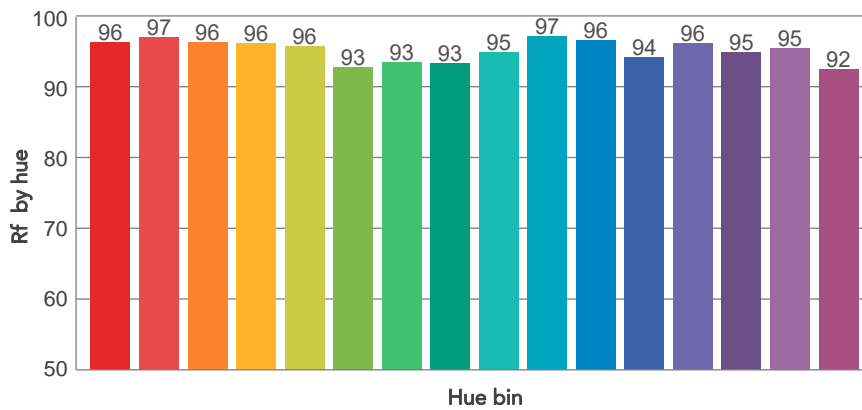
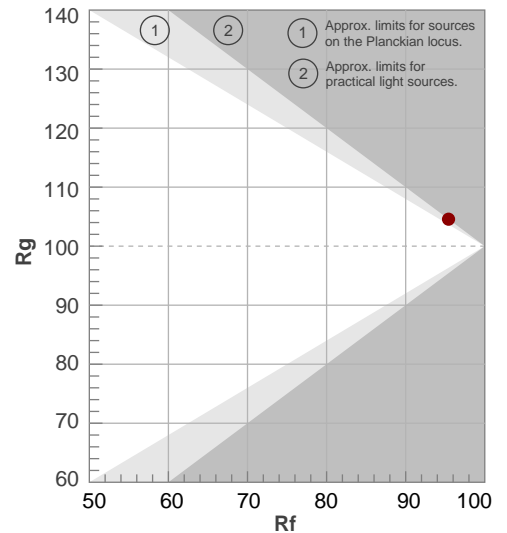
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 2720 K | 95,7 | 92,8 | 95,4 | 104,6 | 94,4 | 97 | 0,456 | 0,405 | -0,0016 |

TM30 DETAILS

Rf 95,4
Fidelity index Rf

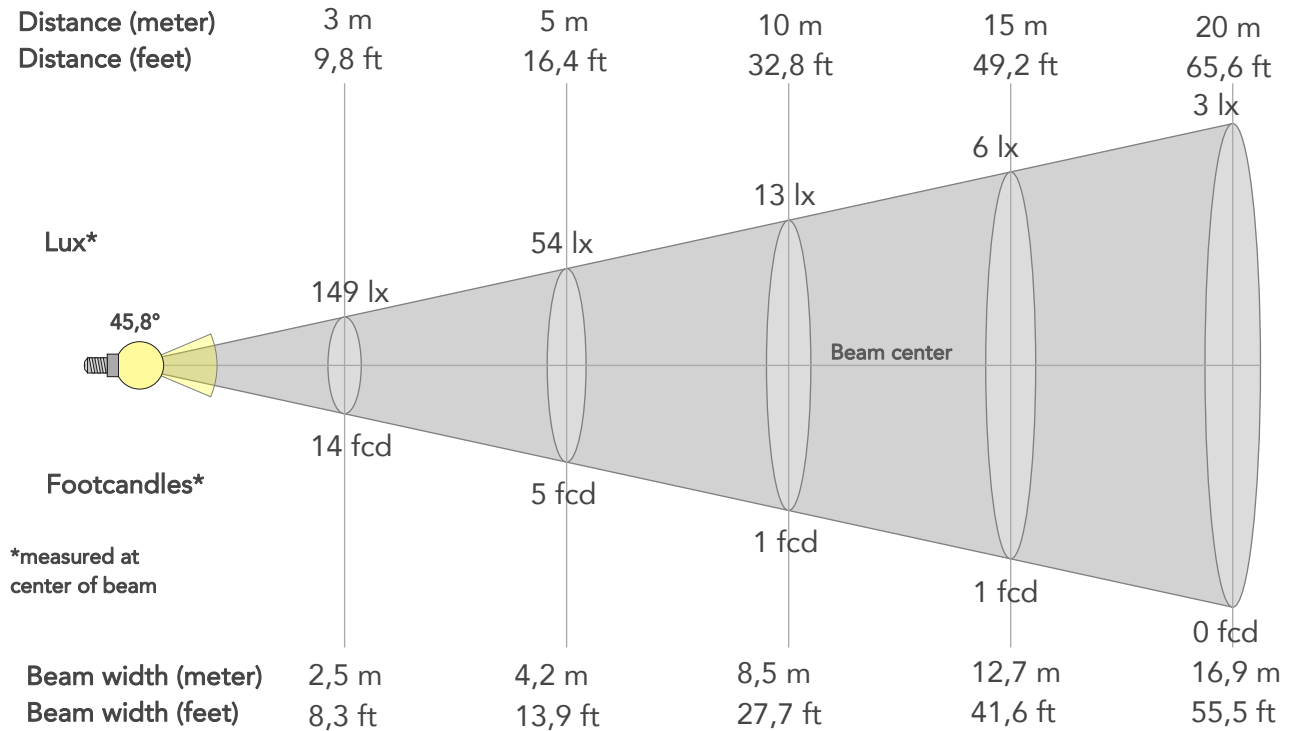
Rg 104,6
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 96 | 1% | -1% |
| 2 | 97 | 1% | -1% |
| 3 | 96 | 1% | 1% |
| 4 | 96 | 1% | 1% |
| 5 | 96 | 3% | 2% |
| 6 | 93 | 5% | 1% |
| 7 | 93 | 4% | -1% |
| 8 | 93 | 3% | -3% |
| 9 | 95 | 1% | -3% |
| 10 | 97 | 0% | -1% |
| 11 | 96 | 1% | 2% |
| 12 | 94 | 3% | 0% |
| 13 | 96 | 3% | -1% |
| 14 | 95 | 4% | -1% |
| 15 | 95 | 2% | -1% |
| 16 | 92 | 3% | -5% |



BEAM DETAILS

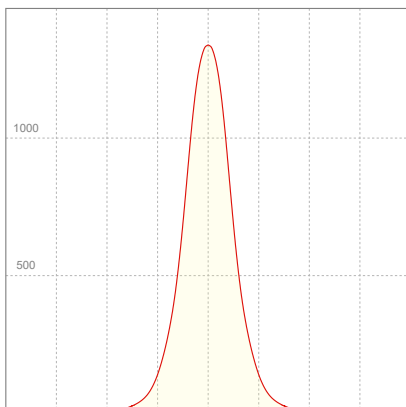
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 45,8° | 91,1° | 128,1° | 94,8% | 85,2% |



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 | 1338lx | 334lx | 149lx | 84lx | 54lx | 24lx | 13lx | 6lx | 3lx | 2lx | 1lx | 1lx | 1lx |
| Footcand. | 124fcd | 31fcd | 14fcd | 8fcd | 5fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,8m | 1,7m | 2,5m | 3,4m | 4,2m | 6,3m | 8,5m | 12,7m | 16,9m | 21,1m | 25,4m | 33,8m | 42,3m |
| Beam wid. | 2,8ft | 5,6ft | 8,3ft | 11,1ft | 13,9ft | 20,8ft | 27,7ft | 41,6ft | 55,5ft | 69,3ft | 83,2ft | 110,9ft | 138,6ft |

LINEAR DISTRIBUTION DIAGRAM

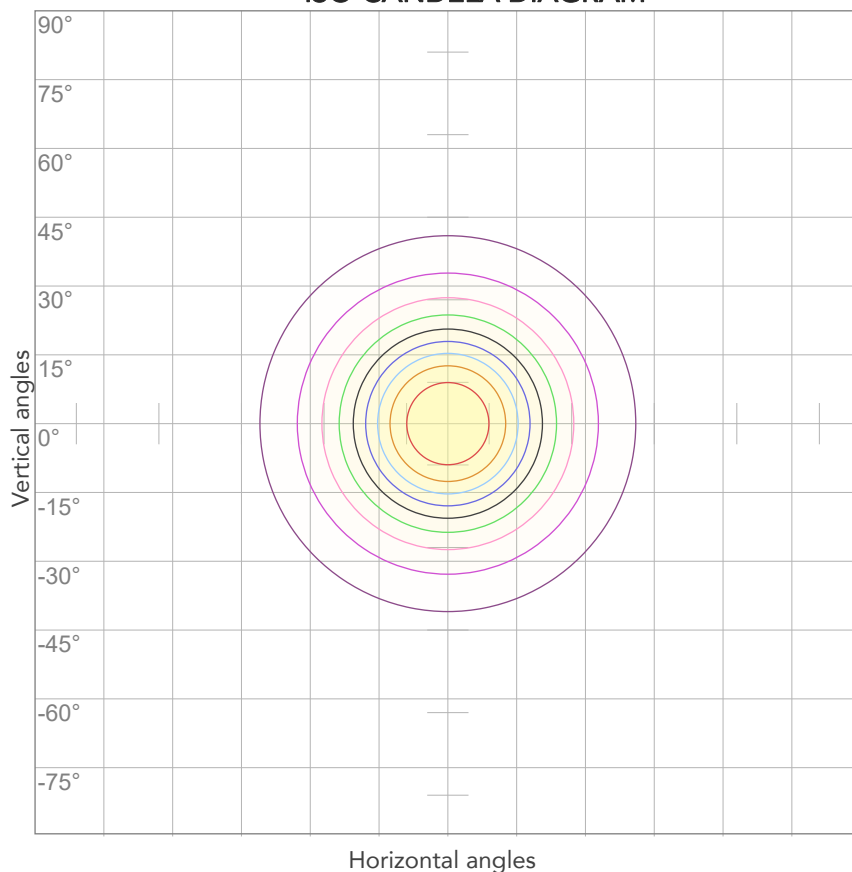


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Effeciency |
|---------------|---------------|-------------|----------|------------|
| 226V | 0,131A | 27,7W | 0,94 | 39lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



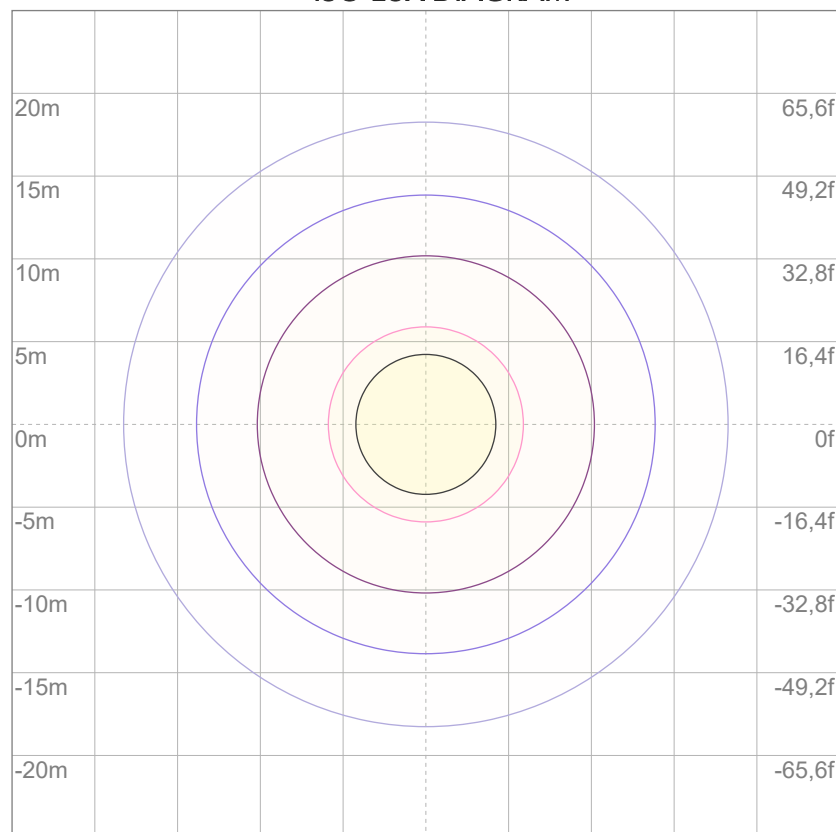
| | |
|-----|---------|
| 10% | 134 cd |
| 20% | 268 cd |
| 30% | 401 cd |
| 40% | 535 cd |
| 50% | 669 cd |
| 60% | 803 cd |
| 70% | 936 cd |
| 80% | 1070 cd |

Conditions:

Number of c-planes: 2

Candela at center: 1338 cd

ISO LUX DIAGRAM



| | |
|-----|----------|
| 3% | 0,401 lx |
| 5% | 0,669 lx |
| 10% | 1,34 lx |
| 30% | 4,01 lx |
| 50% | 6,69 lx |

Conditions:

Number of c-planes: 2

Lux at center: 13,4 lx

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



Total lumen output:

1095 lm

Peak candela output:

1000 cd

Light quality:

CRI: 95,9

Color temperature:

2750 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 60° Filter

Target:

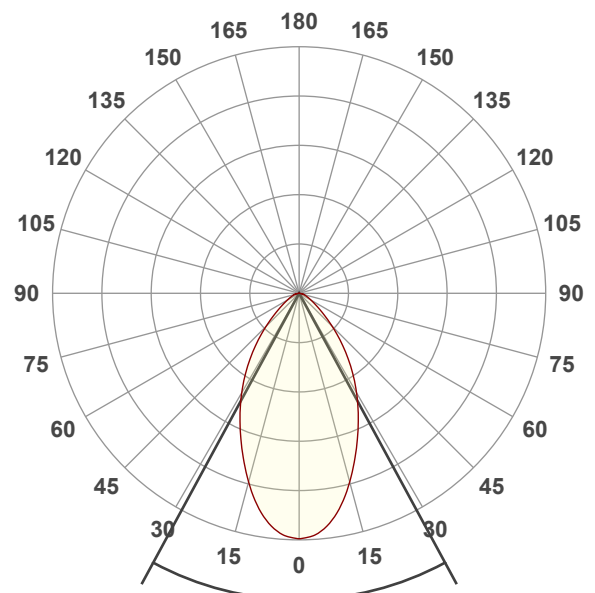
2700K

Operator:

Salvatore Giglio

Date and time:

20/02/2024 09:19:01

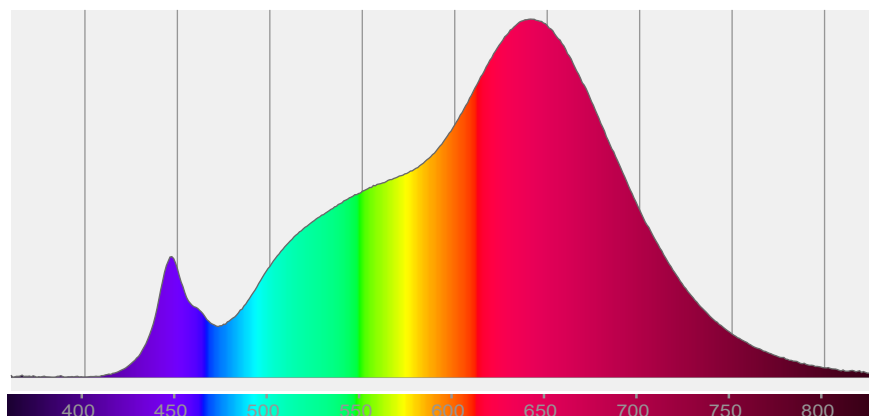


Beam angle 50%: 56,9°

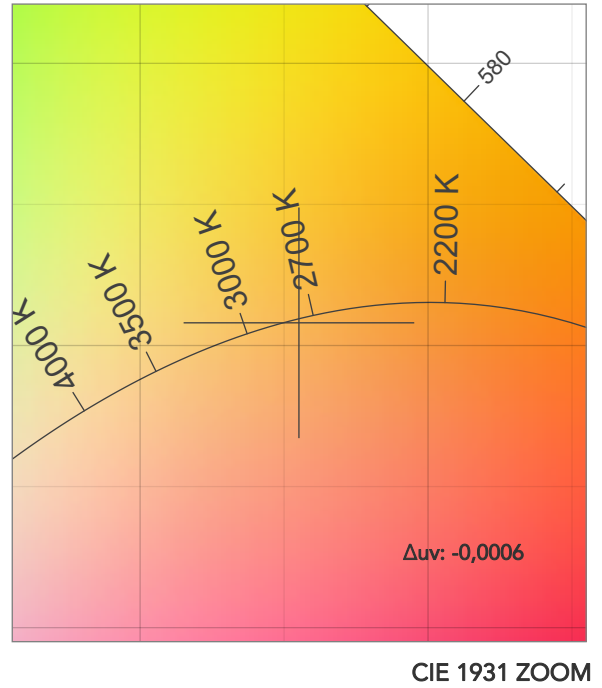
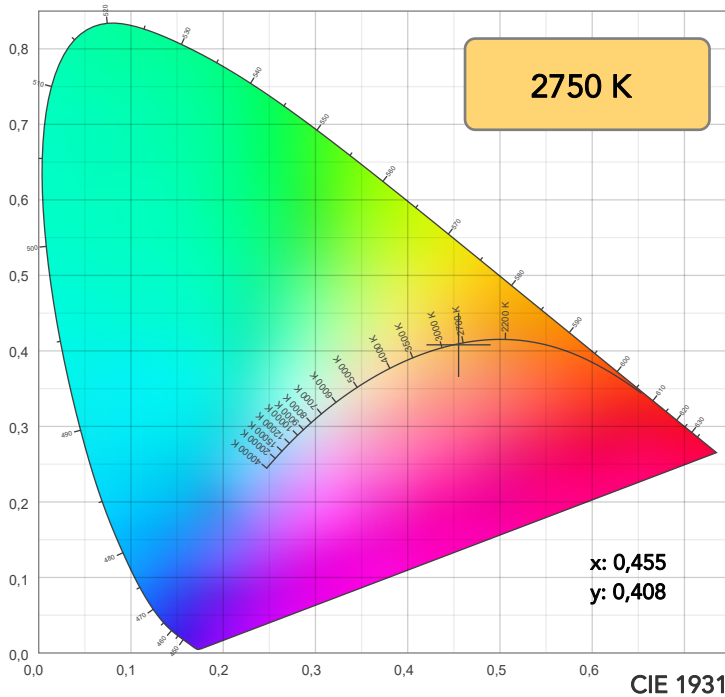
Field angle 10%: 105,5°

Cut off angle 2.5%: 142,9°

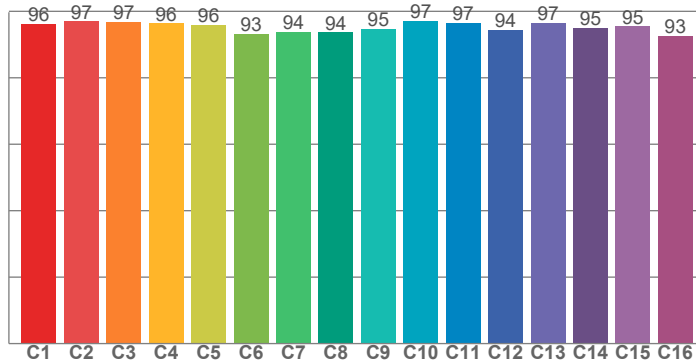
Spectra



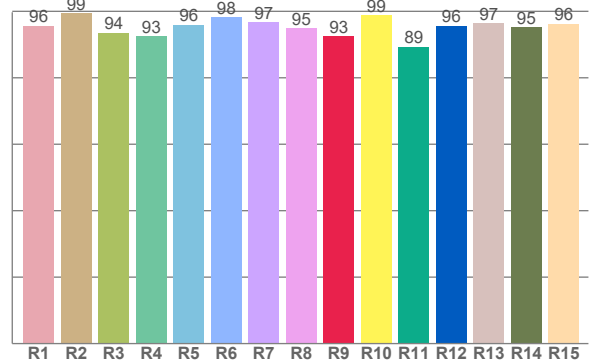
COLOR DETAILS



TM30: 95,6



CRI: 95,9 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,7 | 99,5 | 93,5 | 92,5 | 95,9 | 98,3 | 96,6 | 94,8 | 92,5 | 98,8 | 89,4 | 95,7 | 96,5 | 95,3 | 96,3 |

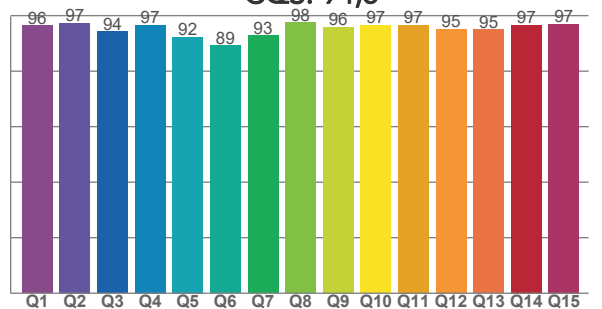
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,2 | 97,0 | 96,8 | 96,3 | 95,9 | 93,2 | 93,9 | 93,7 | 94,8 | 97,1 | 96,6 | 94,4 | 96,6 | 95,0 | 95,4 | 92,6 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,4 | 97,4 | 94,2 | 96,6 | 92,2 | 89,3 | 92,9 | 97,5 | 95,8 | 96,5 | 96,7 | 95,2 | 94,9 | 96,6 | 97,0 |

CQS: 94,5



COLOR PARAMETERS

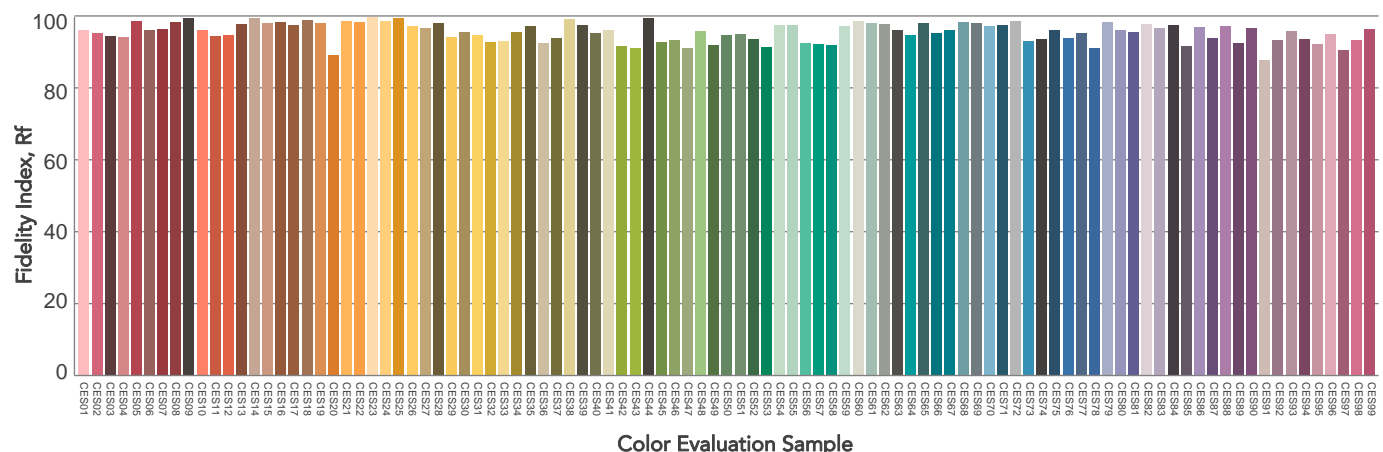
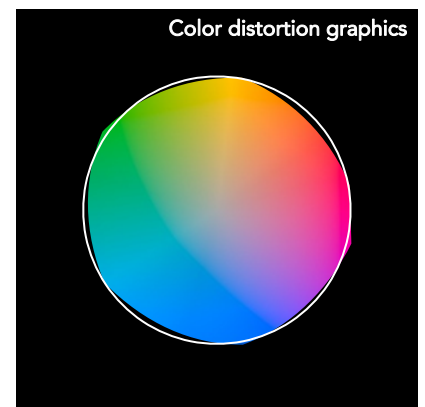
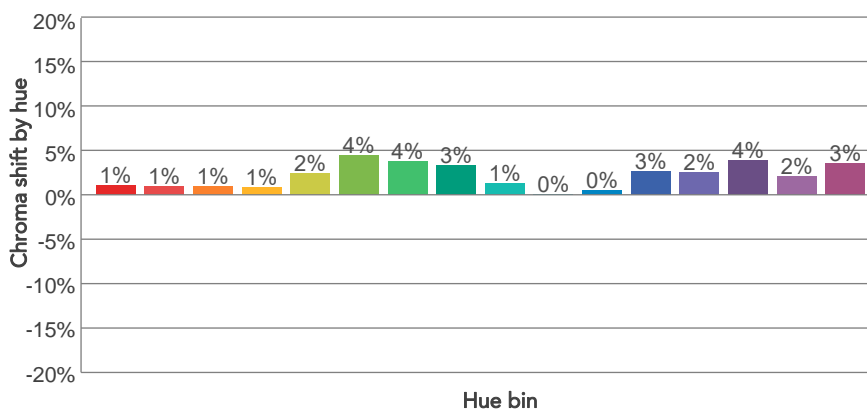
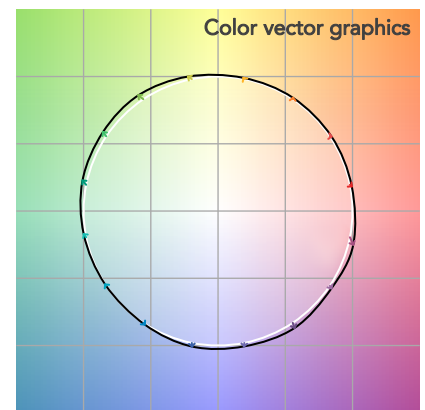
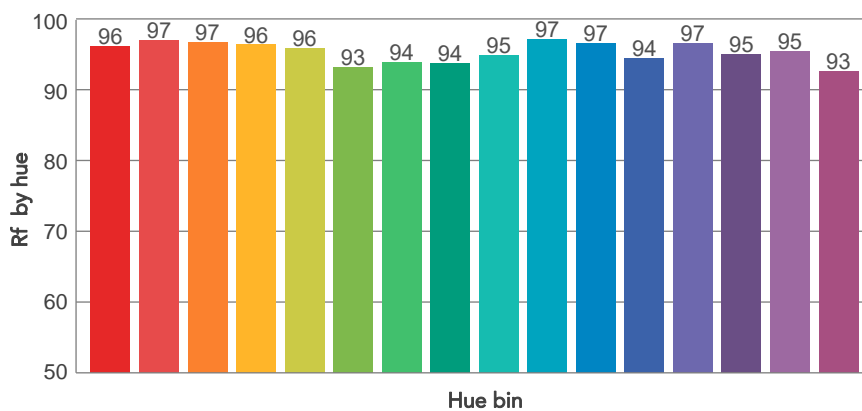
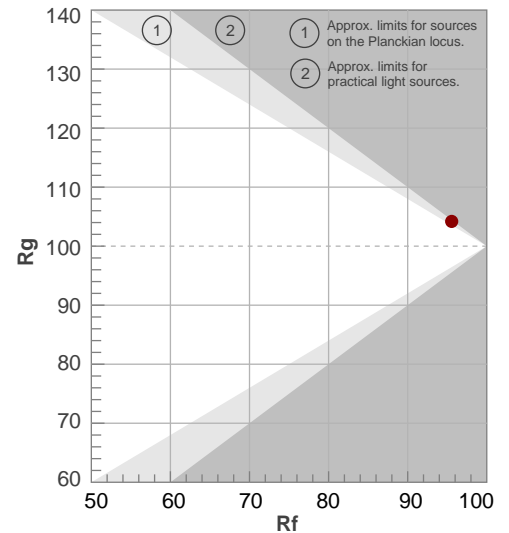
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 2750 K | 95,9 | 92,5 | 95,6 | 104,2 | 94,5 | 97 | 0,455 | 0,408 | -0,0006 |

TM30 DETAILS

Rf 95,6
Fidelity index Rf

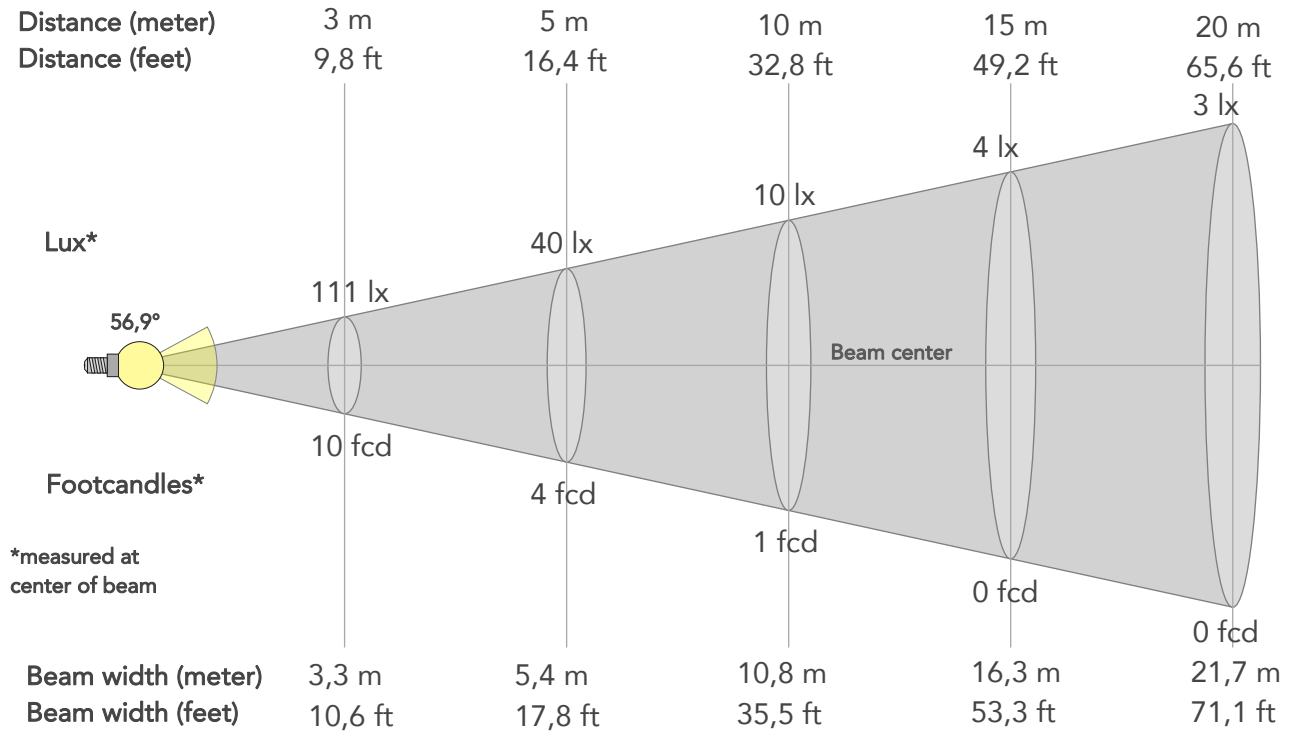
Rg 104,2
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 96 | 1% | -1% |
| 2 | 97 | 1% | -1% |
| 3 | 97 | 1% | 0% |
| 4 | 96 | 1% | 1% |
| 5 | 96 | 2% | 2% |
| 6 | 93 | 4% | 1% |
| 7 | 94 | 4% | -1% |
| 8 | 94 | 3% | -3% |
| 9 | 95 | 1% | -3% |
| 10 | 97 | 0% | -1% |
| 11 | 97 | 0% | 2% |
| 12 | 94 | 3% | 1% |
| 13 | 97 | 2% | -1% |
| 14 | 95 | 4% | -1% |
| 15 | 95 | 2% | -1% |
| 16 | 93 | 3% | -5% |



BEAM DETAILS

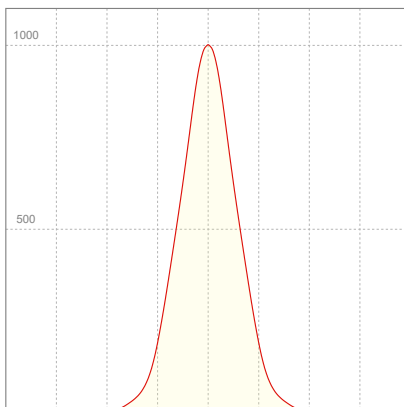
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 56,9° | 105,5° | 142,9° | 94,0% | 81,3% |



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 | 1000lx | 250lx | 111lx | 63lx | 40lx | 18lx | 10lx | 4lx | 3lx | 2lx | 1lx | 1lx | 0lx |
| Footcand. | 93fcd | 23fcd | 10fcd | 6fcd | 4fcd | 2fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 1,1m | 2,2m | 3,3m | 4,3m | 5,4m | 8,1m | 10,8m | 16,3m | 21,7m | 27,1m | 32,5m | 43,3m | 54,2m |
| Beam wid. | 3,6ft | 7,2ft | 10,6ft | 14,2ft | 17,8ft | 26,7ft | 35,5ft | 53,3ft | 71,1ft | 88,8ft | 106,6ft | 142,2ft | 177,7ft |

LINEAR DISTRIBUTION DIAGRAM

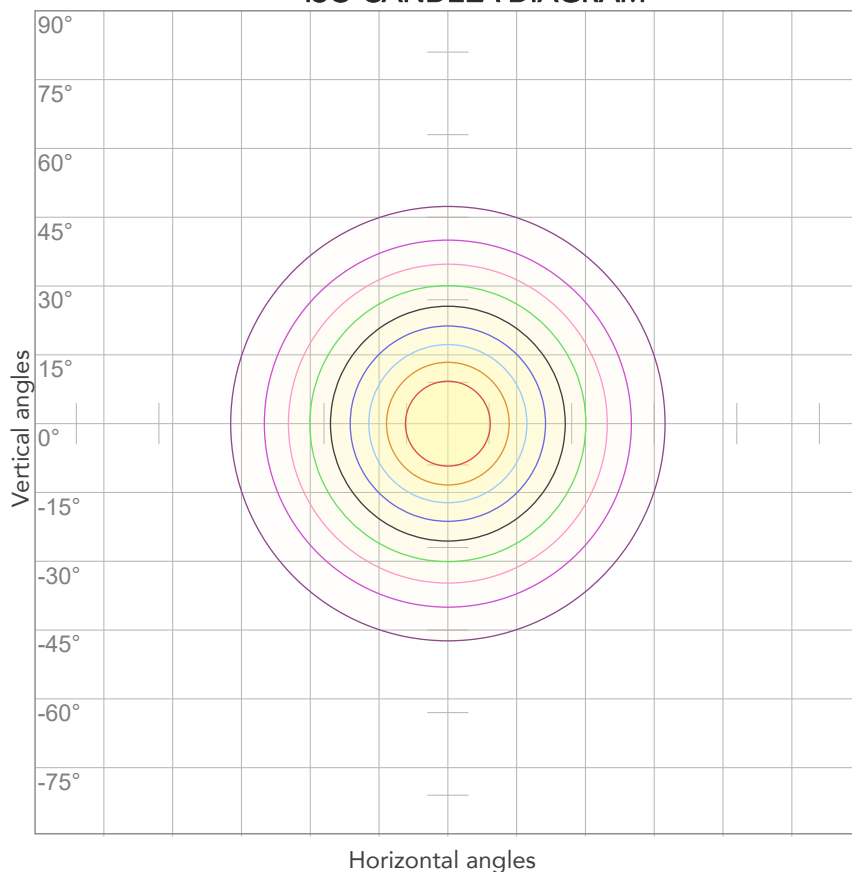


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Efficiency |
|---------------|---------------|-------------|----------|------------|
| 223V | 0,135A | 28,2W | 0,94 | 39lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



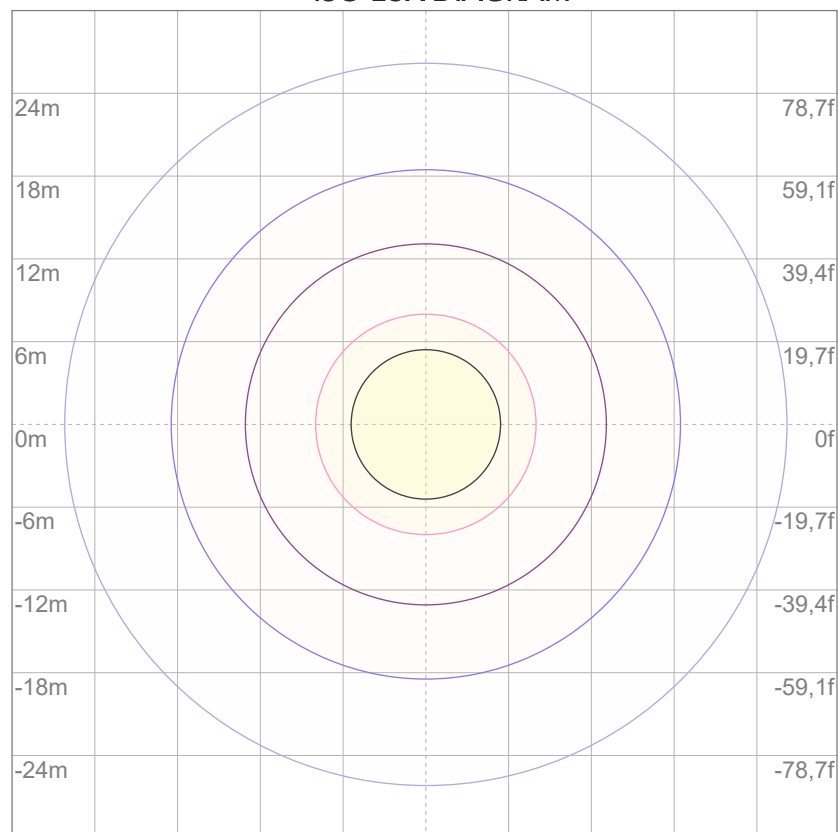
| | |
|-----|--------|
| 10% | 100 cd |
| 20% | 200 cd |
| 30% | 300 cd |
| 40% | 400 cd |
| 50% | 500 cd |
| 60% | 600 cd |
| 70% | 700 cd |
| 80% | 800 cd |

Conditions:

Number of c-planes: 2

Candela at center: 1000 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

| | |
|-----|----------|
| 3% | 0,300 lx |
| 5% | 0,500 lx |
| 10% | 1,00 lx |
| 30% | 3,00 lx |
| 50% | 5,00 lx |

Conditions:

Number of c-planes: 2

Lux at center: 10,0 lx

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



Total lumen output:

1682 lm

Peak candela output:

3438 cd

Light quality:

CRI: 95,8

Color temperature:

2723 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 10°x 60° Filter

Target:

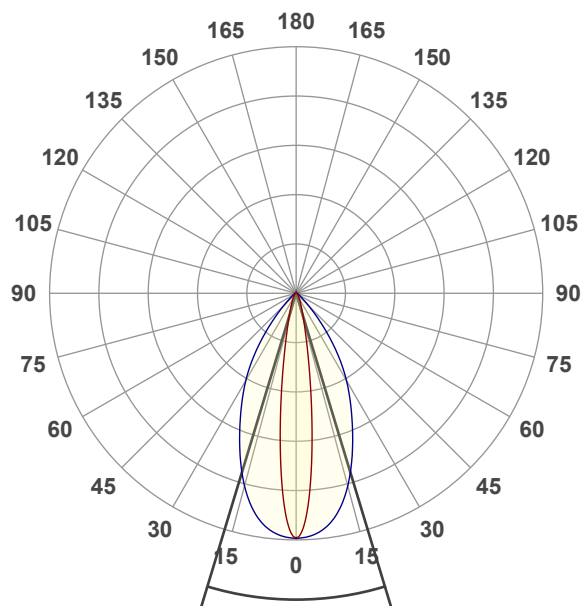
2700K

Operator:

Salvatore Giglio

Date and time:

20/02/2024 11:11:18

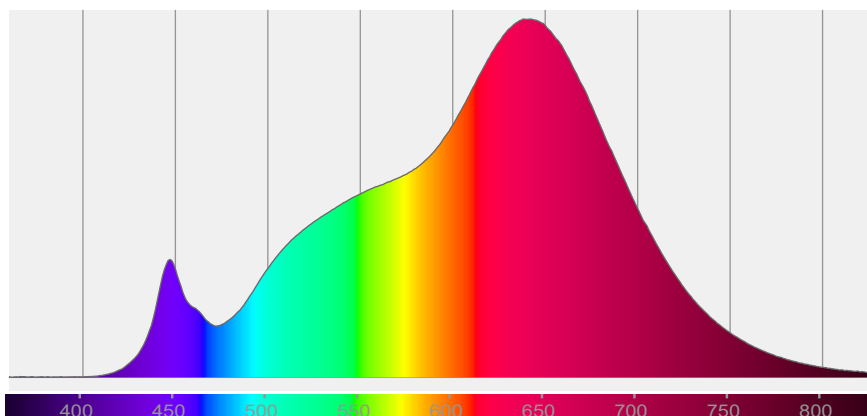


Beam angle 50%: 33,7°

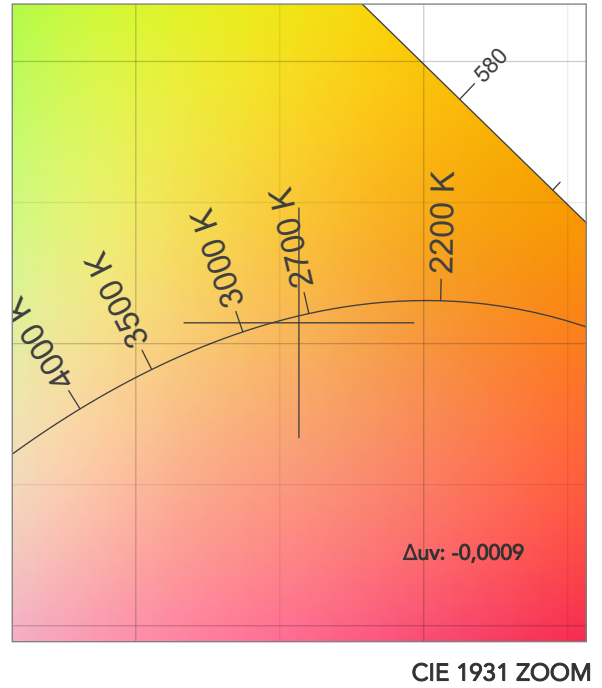
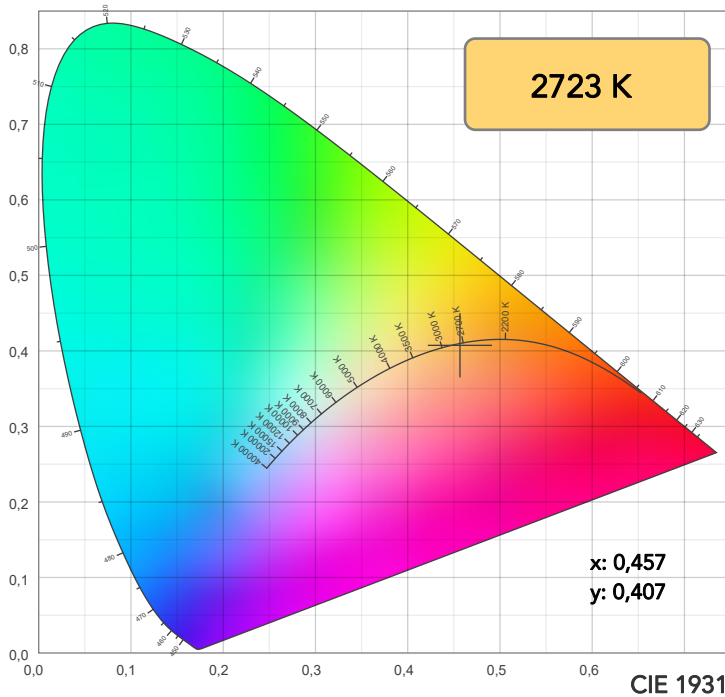
Field angle 10%: 59,8°

Cut off angle 2.5%: 84,1°

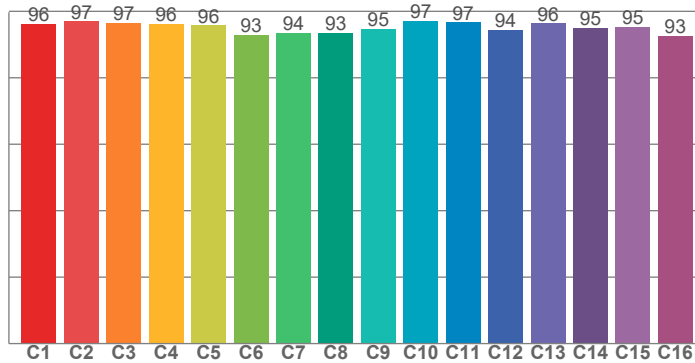
Spectra



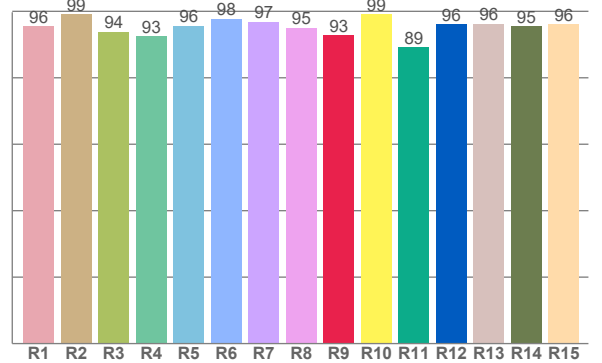
COLOR DETAILS



TM30: 95,5



CRI: 95,8 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,5 | 99,2 | 93,9 | 92,5 | 95,7 | 97,8 | 96,9 | 95,1 | 92,8 | 99,1 | 89,3 | 96,0 | 96,3 | 95,4 | 96,2 |

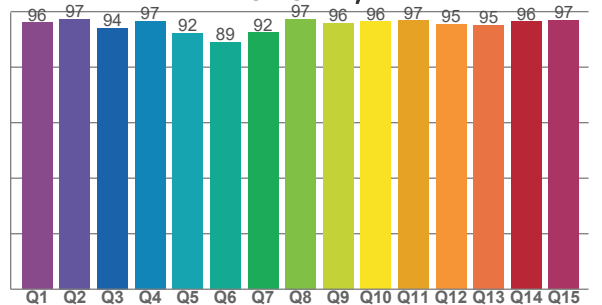
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,2 | 97,0 | 96,6 | 96,2 | 95,8 | 93,0 | 93,5 | 93,4 | 94,7 | 97,1 | 96,6 | 94,3 | 96,4 | 95,0 | 95,4 | 92,6 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,1 | 97,3 | 94,1 | 96,6 | 92,2 | 89,1 | 92,4 | 97,4 | 95,9 | 96,4 | 96,8 | 95,4 | 95,2 | 96,4 | 96,9 |

CQS: 94,4



COLOR PARAMETERS

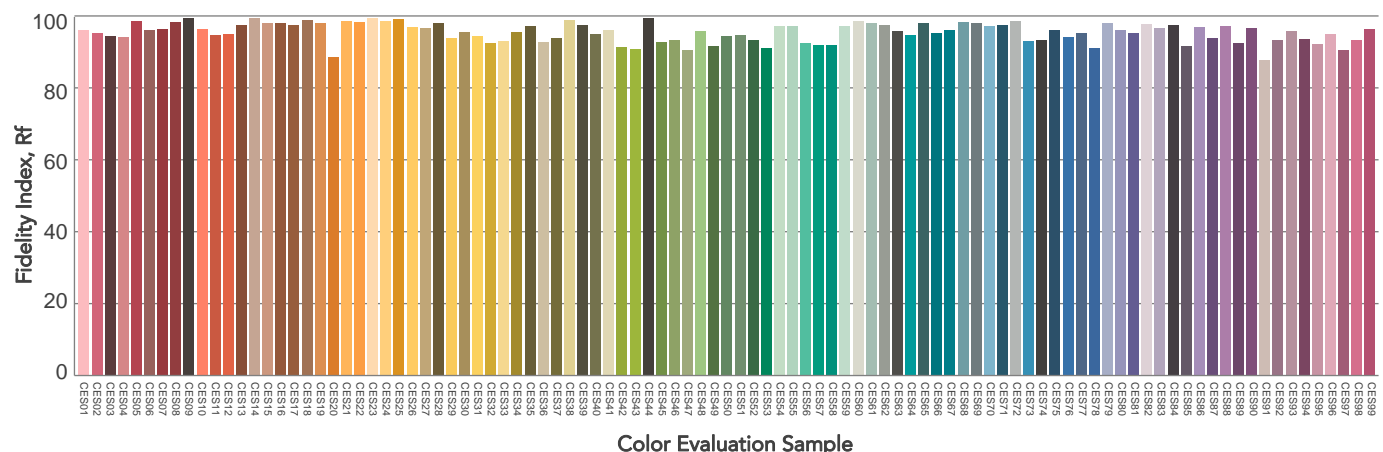
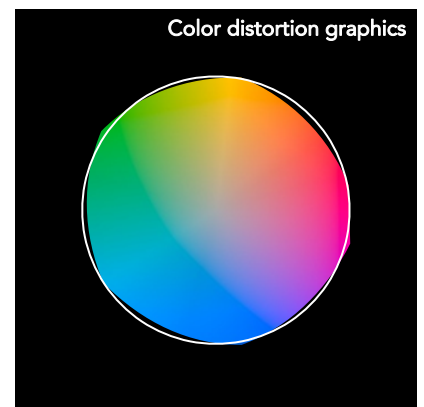
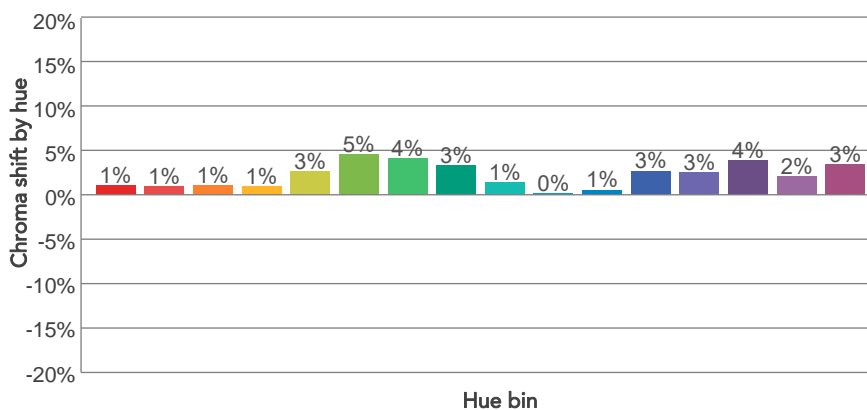
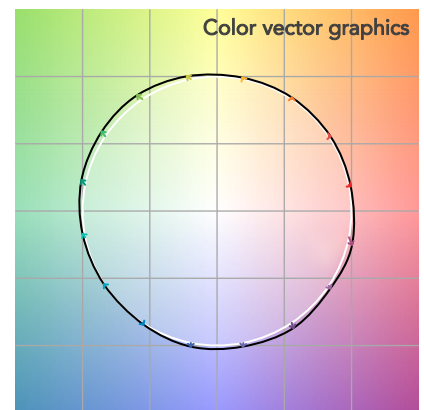
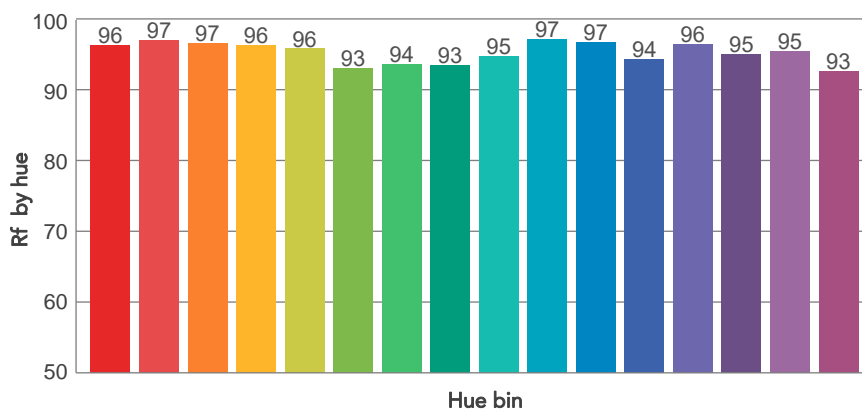
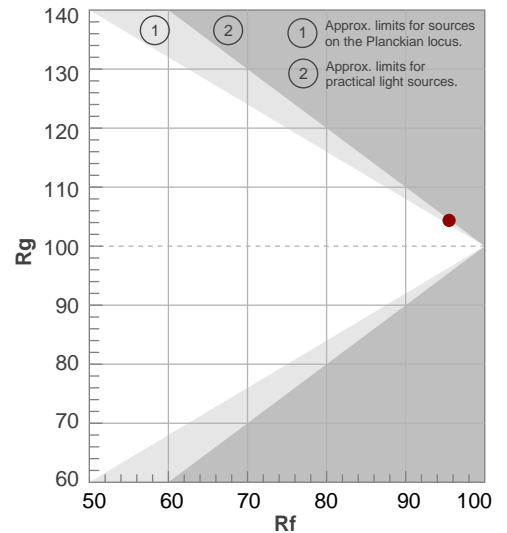
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 2723 K | 95,8 | 92,8 | 95,5 | 104,4 | 94,4 | 97 | 0,457 | 0,407 | -0,0009 |

TM30 DETAILS

Rf 95,5
Fidelity index Rf

Rg 104,4
Gammut index

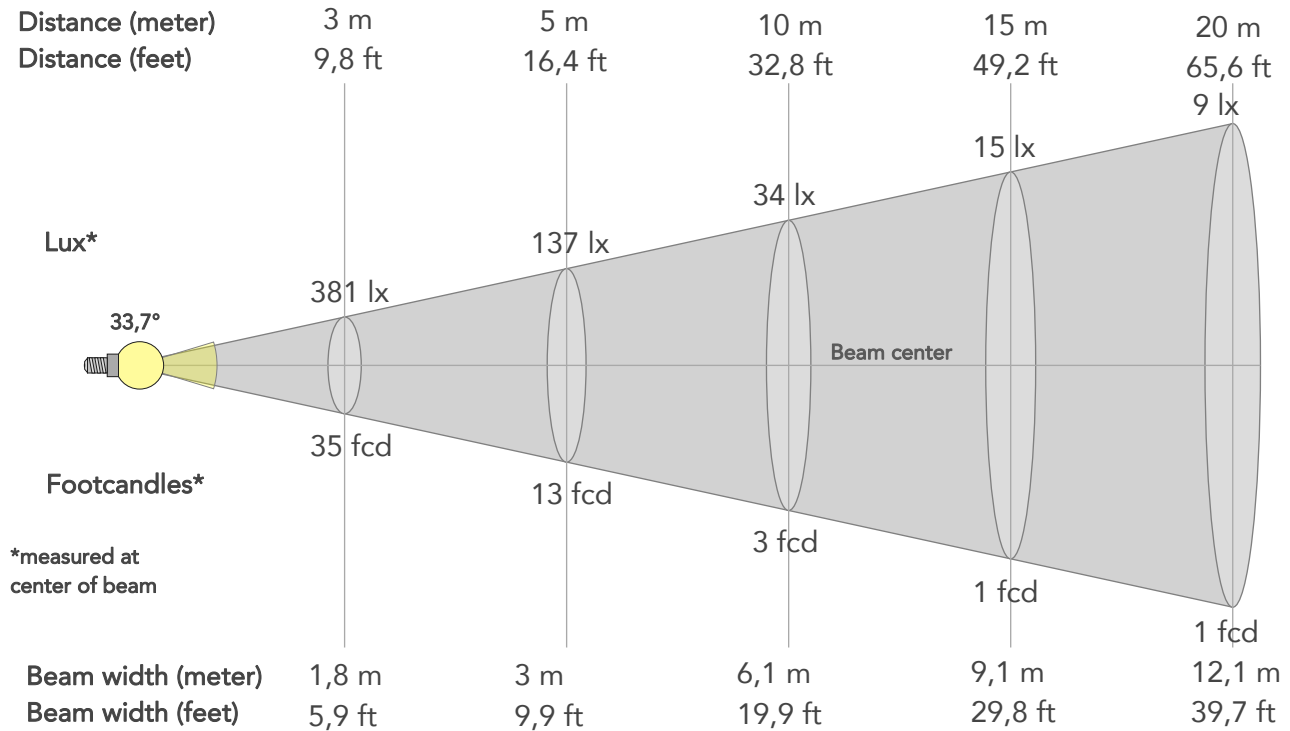
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 96 | 1% | -1% |
| 2 | 97 | 1% | -1% |
| 3 | 97 | 1% | 1% |
| 4 | 96 | 1% | 1% |
| 5 | 96 | 3% | 2% |
| 6 | 93 | 5% | 2% |
| 7 | 94 | 4% | -1% |
| 8 | 93 | 3% | -3% |
| 9 | 95 | 1% | -3% |
| 10 | 97 | 0% | -1% |
| 11 | 97 | 1% | 2% |
| 12 | 94 | 3% | 1% |
| 13 | 96 | 3% | -1% |
| 14 | 95 | 4% | -1% |
| 15 | 95 | 2% | -1% |
| 16 | 93 | 3% | -5% |



BEAM DETAILS



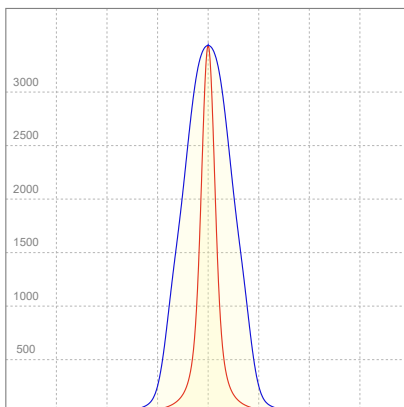
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 33,7° | 59,8° | 84,1° | 97,4% | 92,3% |



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 | 3432lx | 858lx | 381lx | 214lx | 137lx | 61lx | 34lx | 15lx | 9lx | 5lx | 4lx | 2lx | 1lx |
| Footcand. | 319fcd | 80fcd | 35fcd | 20fcd | 13fcd | 6fcd | 3fcd | 1fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,6m | 1,2m | 1,8m | 2,4m | 3m | 4,5m | 6,1m | 9,1m | 12,1m | 15,1m | 18,2m | 24,2m | 30,3m |
| Beam wid. | 2ft | 4ft | 5,9ft | 7,9ft | 9,9ft | 14,9ft | 19,9ft | 29,8ft | 39,7ft | 49,6ft | 59,6ft | 79,4ft | 99,3ft |

LINEAR DISTRIBUTION DIAGRAM

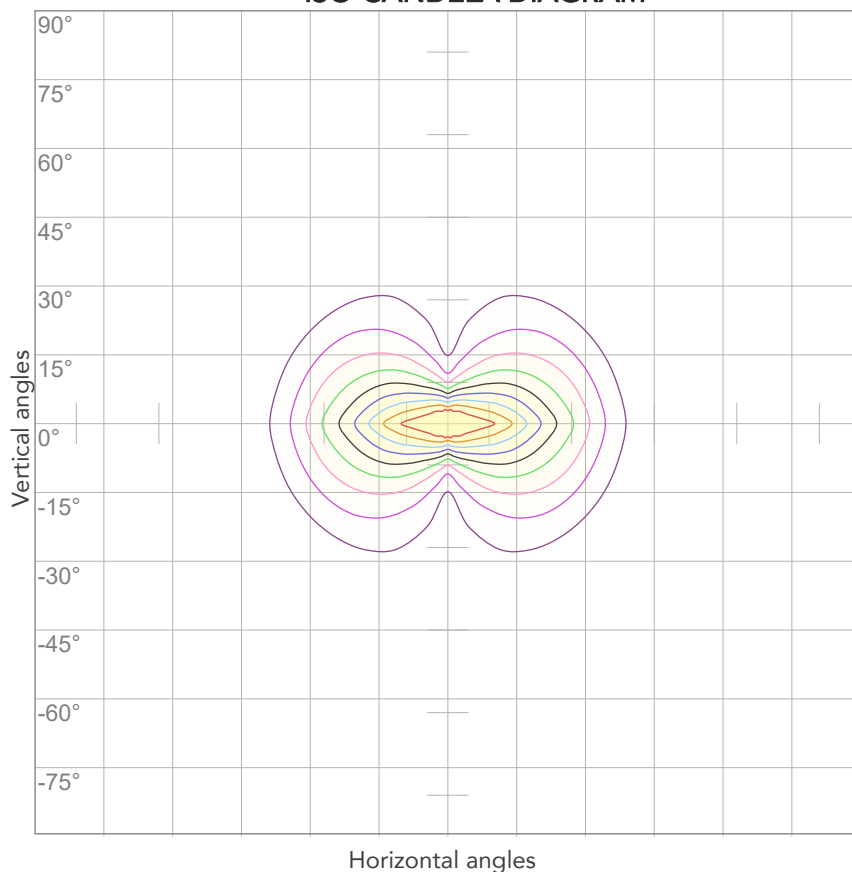


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Efficiency |
|---------------|---------------|-------------|----------|------------|
| 226V | 0,132A | 28,0W | 0,94 | 60lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



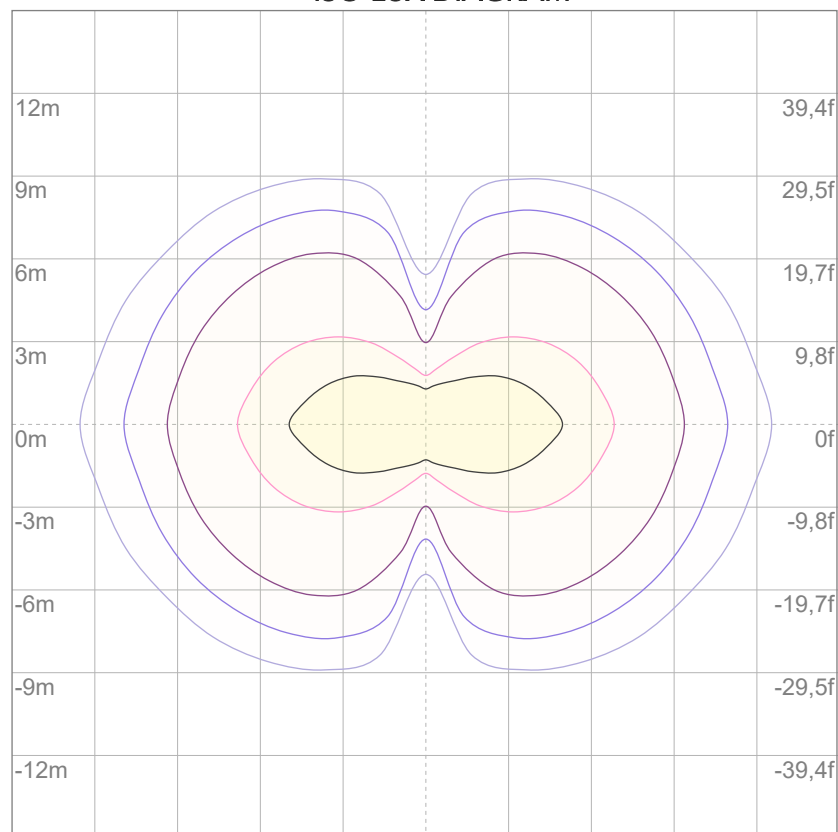
| | |
|-----|---------|
| 10% | 343 cd |
| 20% | 686 cd |
| 30% | 1030 cd |
| 40% | 1373 cd |
| 50% | 1716 cd |
| 60% | 2059 cd |
| 70% | 2402 cd |
| 80% | 2745 cd |

Conditions:

Number of c-planes: 4

Candela at center: 3432 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 1,03 lx |
| 5% | 1,72 lx |
| 10% | 3,43 lx |
| 30% | 10,3 lx |
| 50% | 17,2 lx |

Conditions:

Number of c-planes: 4

Lux at center: 34,3 lx

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



Total lumen output:

1040 lm

Peak candela output:

1711 cd

Light quality:

CRI: 95,8

Color temperature:

2733 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 30°x 60° Filter

Target:

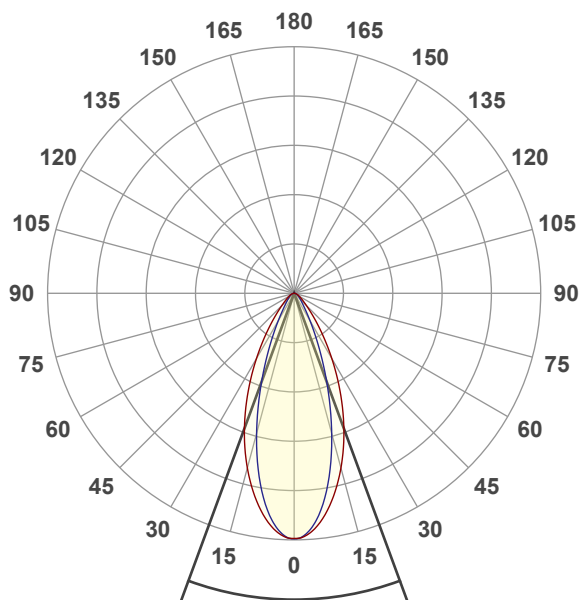
2700K

Operator:

Salvatore Giglio

Date and time:

20/02/2024 11:51:16

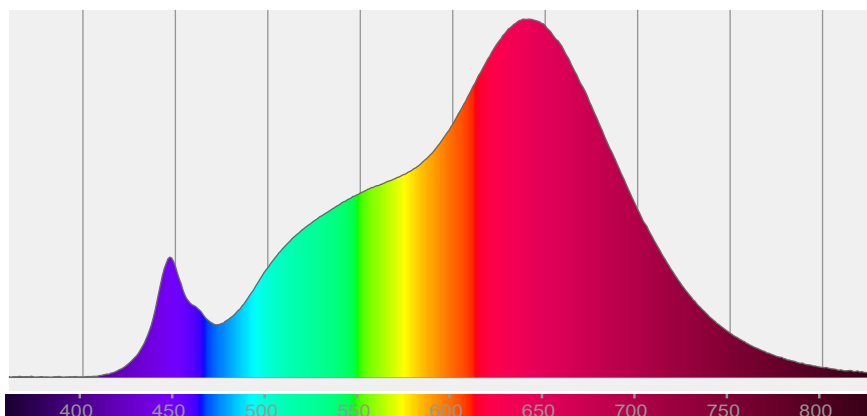


Beam angle 50%: 40,4°

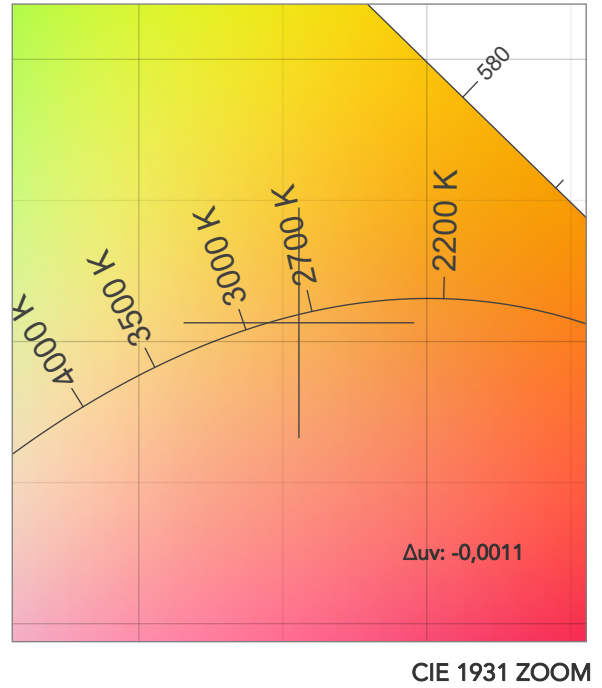
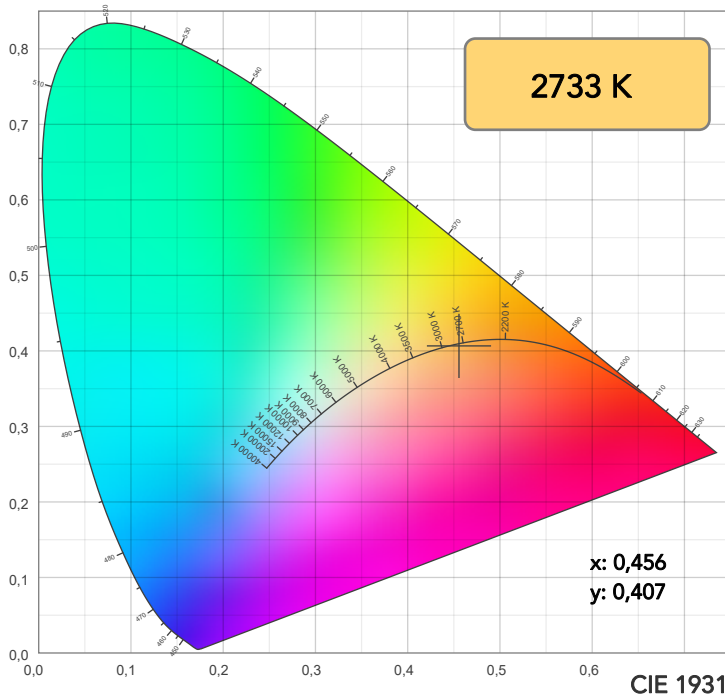
Field angle 10%: 73,9°

Cut off angle 2.5%: 111,8°

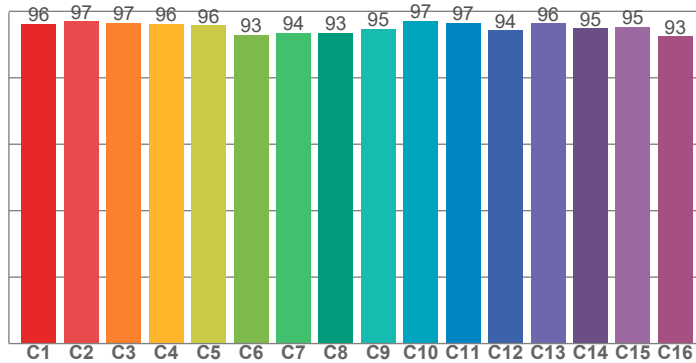
Spectra



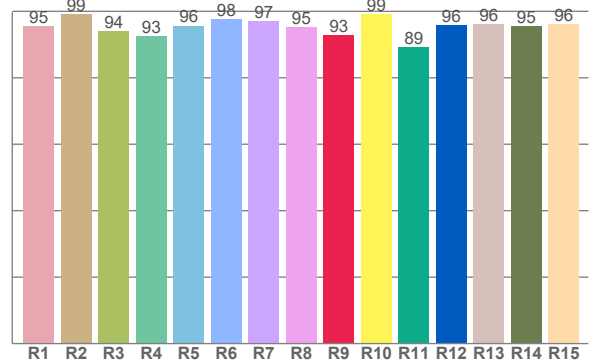
COLOR DETAILS



TM30: 95,5



CRI: 95,8 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,5 | 99,1 | 94,0 | 92,5 | 95,6 | 97,7 | 97,0 | 95,2 | 92,8 | 99,1 | 89,3 | 95,9 | 96,2 | 95,5 | 96,1 |

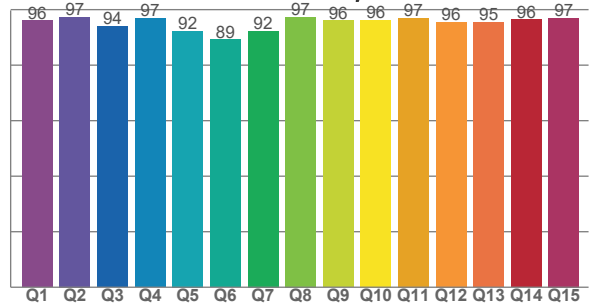
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,3 | 97,0 | 96,5 | 96,2 | 95,8 | 92,9 | 93,5 | 93,4 | 94,8 | 97,1 | 96,5 | 94,3 | 96,3 | 94,9 | 95,4 | 92,5 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,1 | 97,3 | 94,0 | 96,9 | 92,4 | 89,2 | 92,3 | 97,3 | 96,0 | 96,3 | 97,0 | 95,6 | 95,4 | 96,4 | 96,9 |

CQS: 94,4



COLOR PARAMETERS

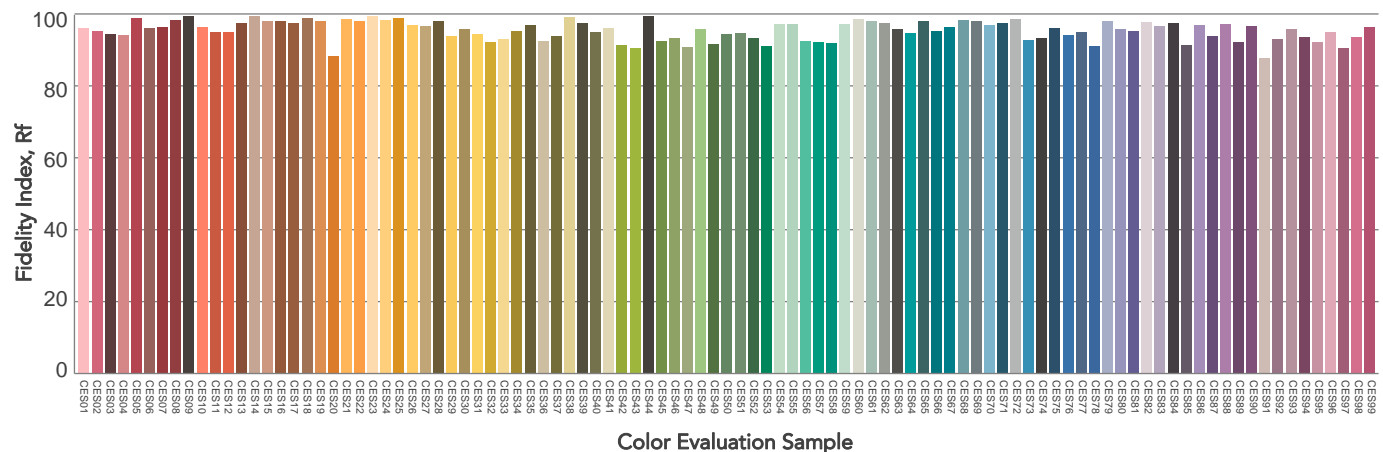
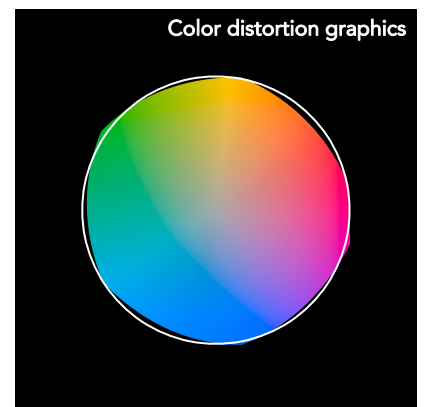
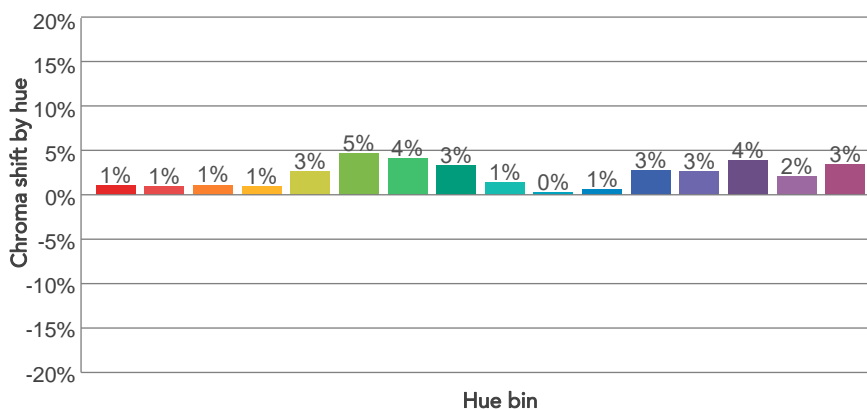
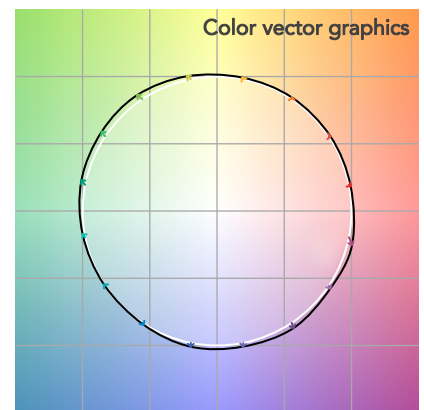
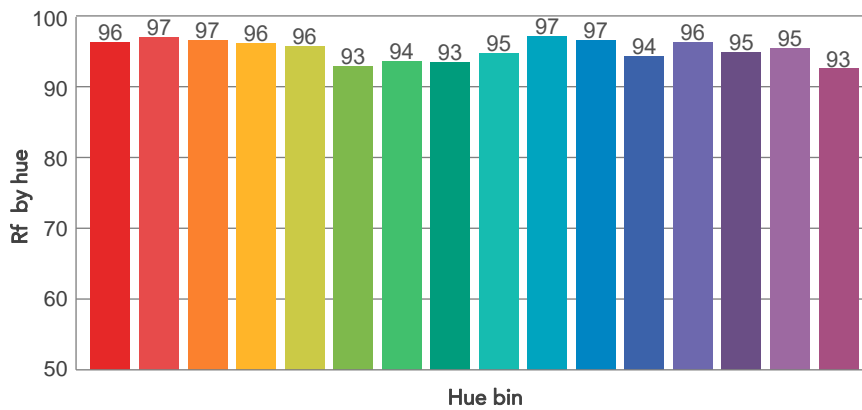
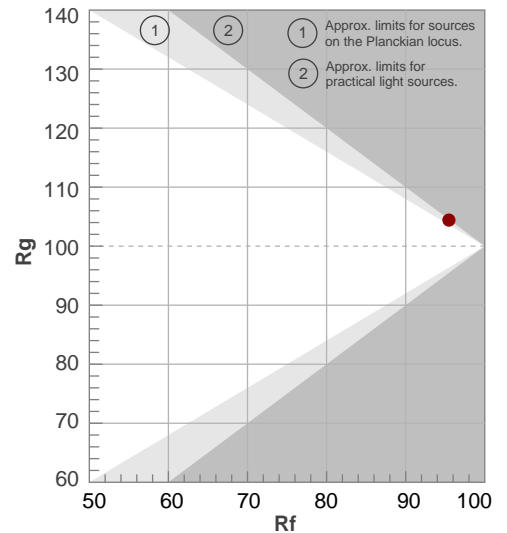
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 2733 K | 95,8 | 92,8 | 95,5 | 104,4 | 94,4 | 97 | 0,456 | 0,407 | -0,0011 |

TM30 DETAILS

Rf 95,5
Fidelity index Rf

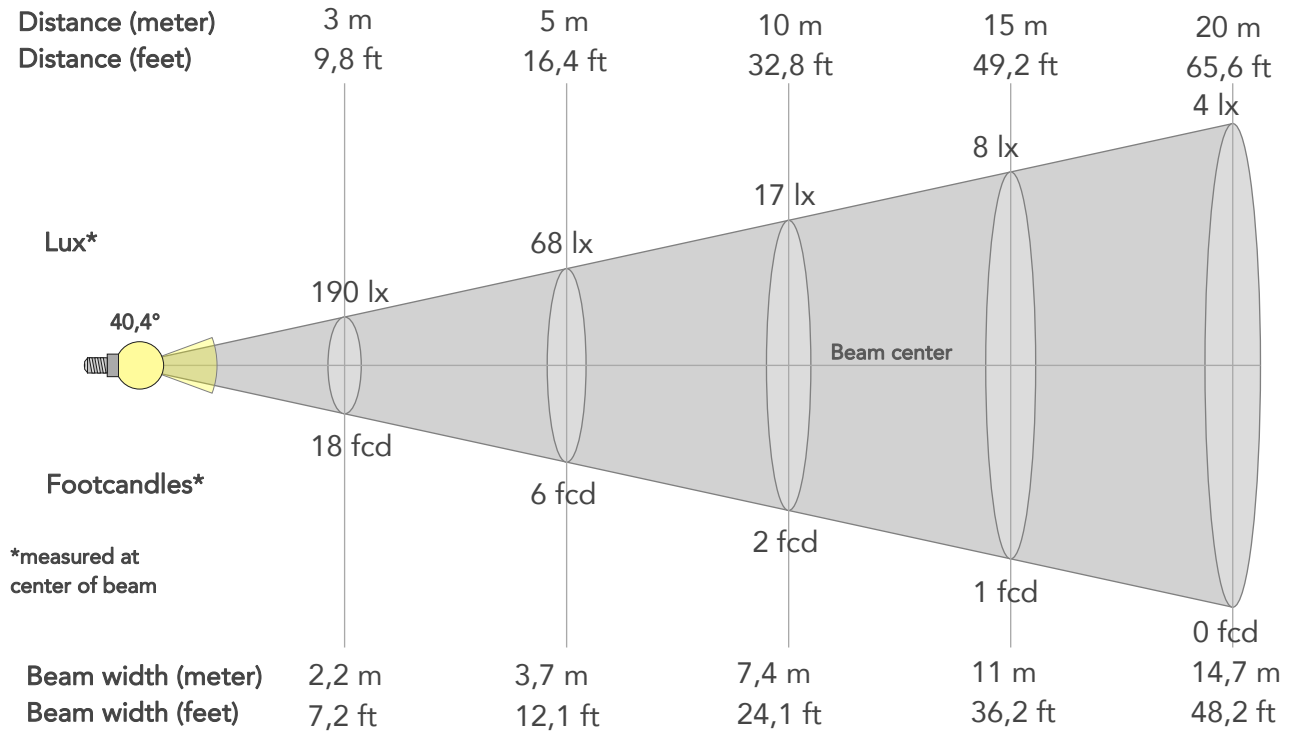
Rg 104,4
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 96 | 1% | -1% |
| 2 | 97 | 1% | -1% |
| 3 | 97 | 1% | 1% |
| 4 | 96 | 1% | 1% |
| 5 | 96 | 3% | 2% |
| 6 | 93 | 5% | 2% |
| 7 | 94 | 4% | -1% |
| 8 | 93 | 3% | -3% |
| 9 | 95 | 1% | -3% |
| 10 | 97 | 0% | -1% |
| 11 | 97 | 1% | 2% |
| 12 | 94 | 3% | 1% |
| 13 | 96 | 3% | -1% |
| 14 | 95 | 4% | -1% |
| 15 | 95 | 2% | -1% |
| 16 | 93 | 3% | -5% |



BEAM DETAILS

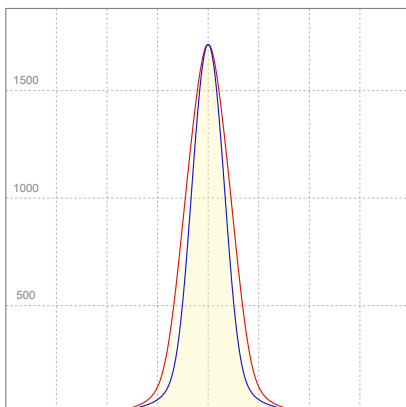
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 40,4° | 73,9° | 111,8° | 95,4% | 88,3% |



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 | 1711lx | 428lx | 190lx | 107lx | 68lx | 30lx | 17lx | 8lx | 4lx | 3lx | 2lx | 1lx | 1lx |
| Footcand. | 159fcd | 40fcd | 18fcd | 10fcd | 6fcd | 3fcd | 2fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,7m | 1,5m | 2,2m | 2,9m | 3,7m | 5,5m | 7,4m | 11m | 14,7m | 18,4m | 22,1m | 29,4m | 36,8m |
| Beam wid. | 2,4ft | 4,9ft | 7,2ft | 9,6ft | 12,1ft | 18,1ft | 24,1ft | 36,2ft | 48,2ft | 60,3ft | 72,4ft | 96,5ft | 120,6ft |

LINEAR DISTRIBUTION DIAGRAM

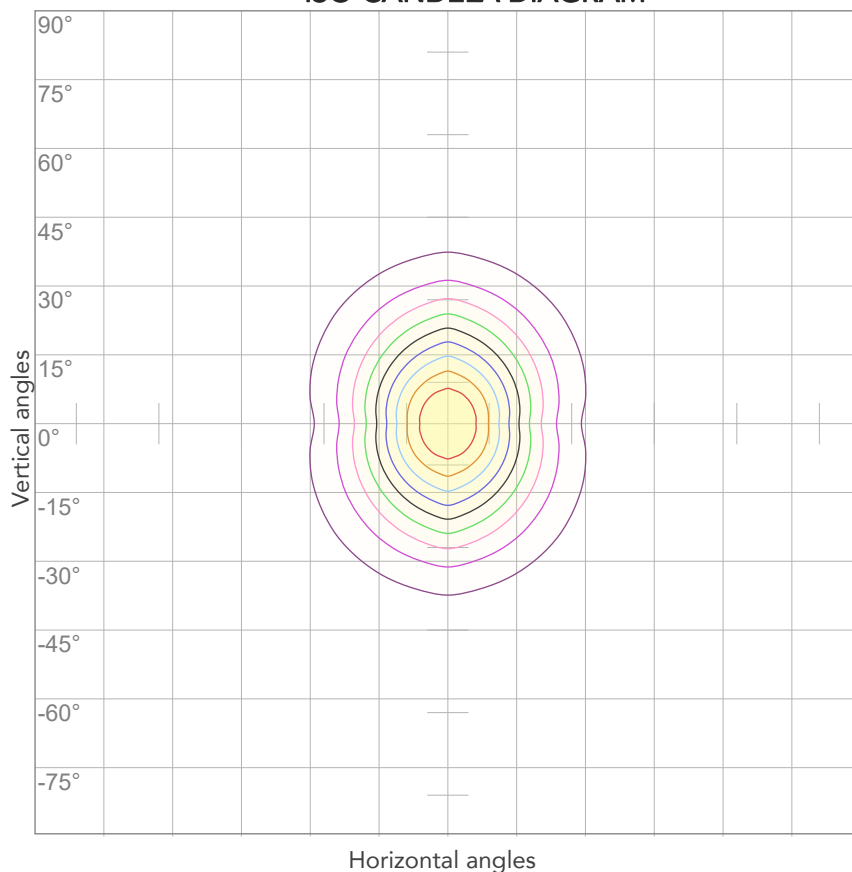


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Efficiency |
|---------------|---------------|-------------|----------|------------|
| 226V | 0,131A | 28,0W | 0,94 | 37lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



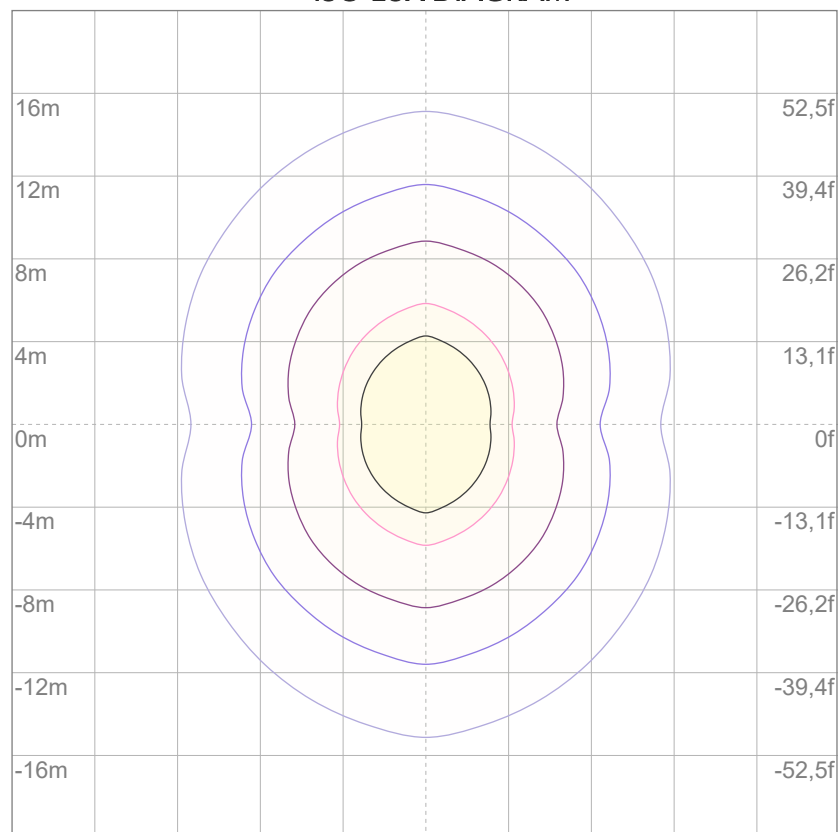
| | |
|-----|---------|
| 10% | 171 cd |
| 20% | 342 cd |
| 30% | 513 cd |
| 40% | 684 cd |
| 50% | 855 cd |
| 60% | 1026 cd |
| 70% | 1197 cd |
| 80% | 1368 cd |

Conditions:

Number of c-planes: 4

Candela at center: 1711 cd

ISO LUX DIAGRAM



| | |
|-----|----------|
| 3% | 0,513 lx |
| 5% | 0,855 lx |
| 10% | 1,71 lx |
| 30% | 5,13 lx |
| 50% | 8,55 lx |

Conditions:

Number of c-planes: 4

Lux at center: 17,1 lx

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



Total lumen output:

1515 lm

Peak candela output:

29776 cd

Light quality:

CRI: 94,1

Color temperature:

3217 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10°

Target:

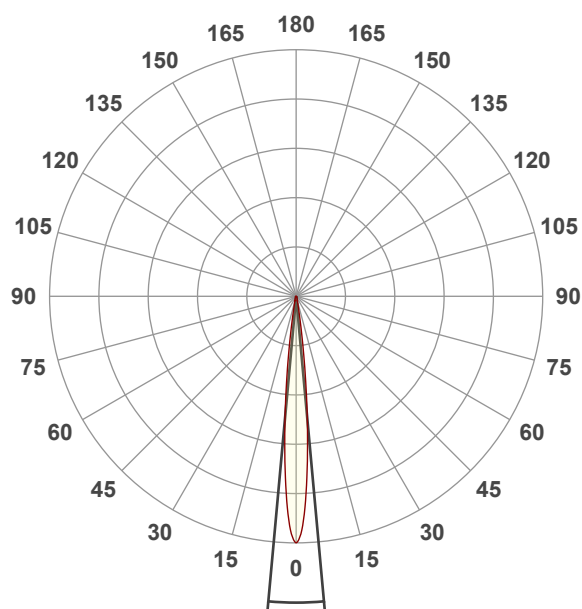
3200K

Operator:

Salvatore Giglio

Date and time:

19/02/2024 16:30:04

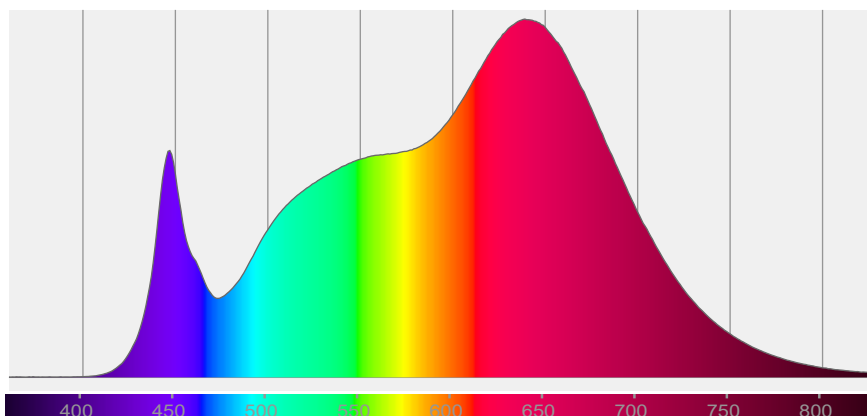


Beam angle 50%: 10,4°

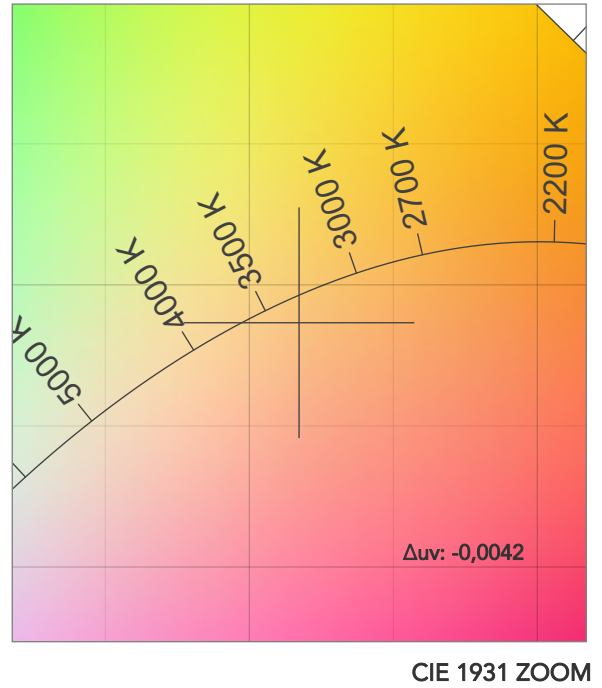
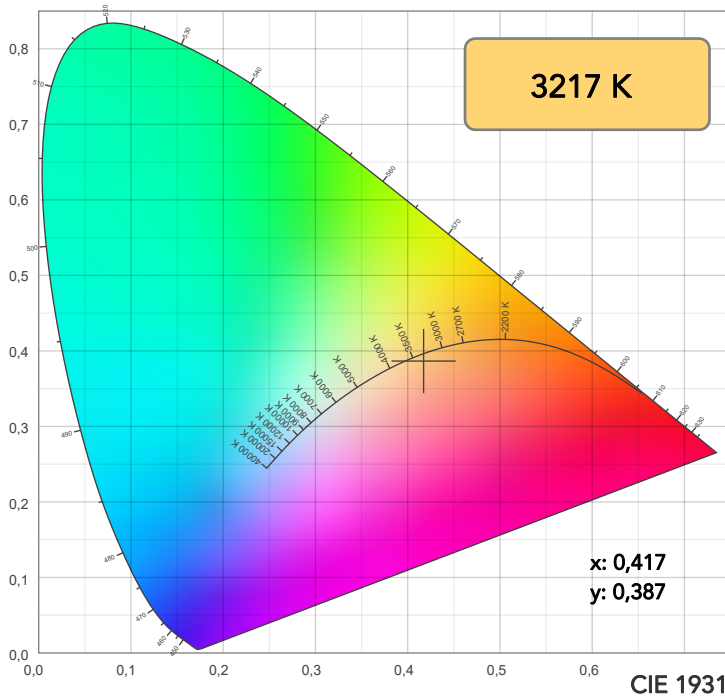
Field angle 10%: 18,7°

Cut off angle 2.5%: 27,6°

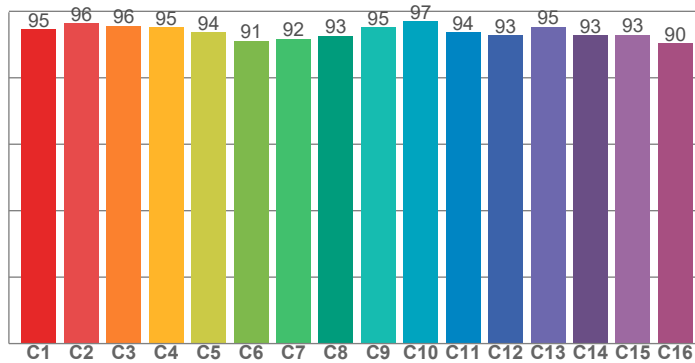
Spectra



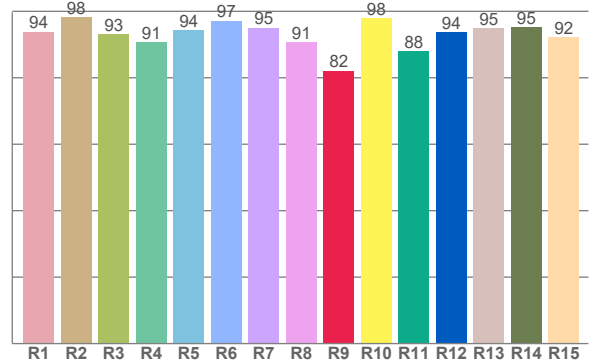
COLOR DETAILS



TM30: 94,1



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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 93,8 | 98,3 | 93,1 | 90,7 | 94,3 | 97,1 | 95,0 | 90,8 | 82,1 | 97,9 | 87,9 | 93,7 | 94,9 | 95,2 | 92,3 |

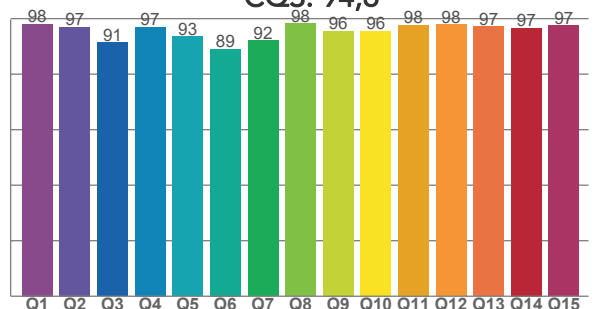
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,5 | 96,4 | 95,5 | 95,2 | 93,7 | 91,1 | 91,7 | 92,7 | 95,2 | 97,0 | 93,6 | 92,8 | 95,2 | 92,7 | 93,0 | 90,3 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 98,1 | 97,0 | 91,4 | 96,9 | 93,5 | 89,0 | 92,1 | 98,2 | 95,5 | 95,5 | 97,6 | 97,9 | 97,1 | 96,6 | 97,5 |

CQS: 94,6



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 |
| 3217 K | 94,1 | 82,1 | 94,1 | 106,2 | 94,6 | 96 | 0,417 | 0,387 | -0,0042 |

TM30 DETAILS

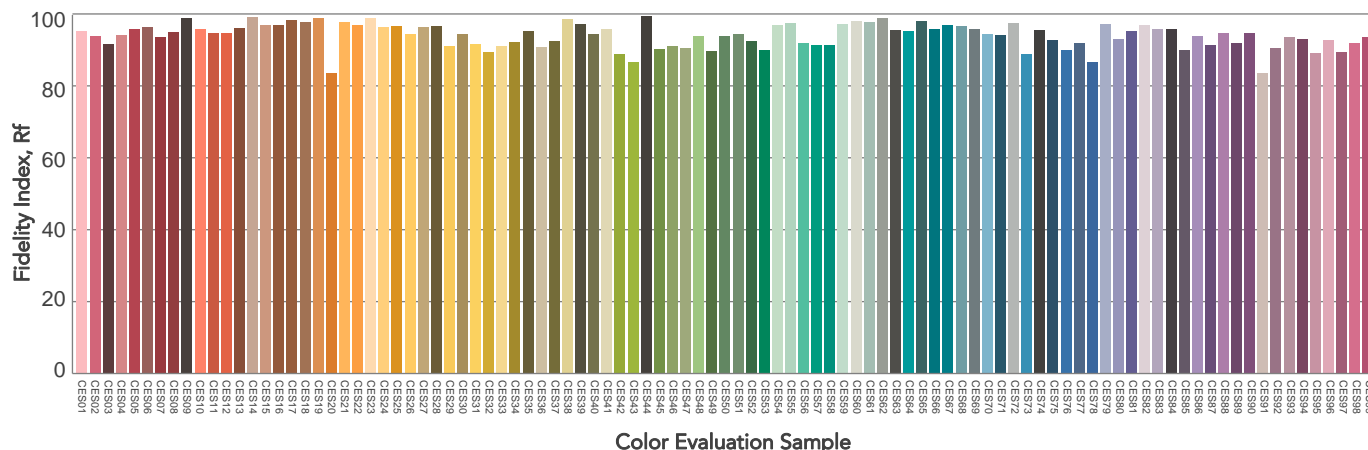
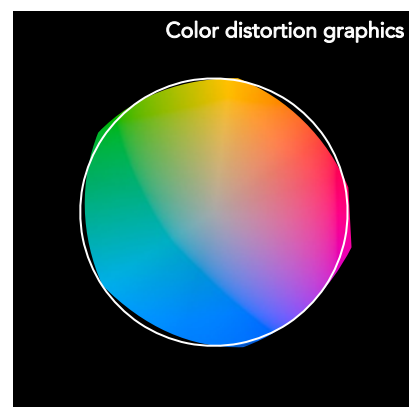
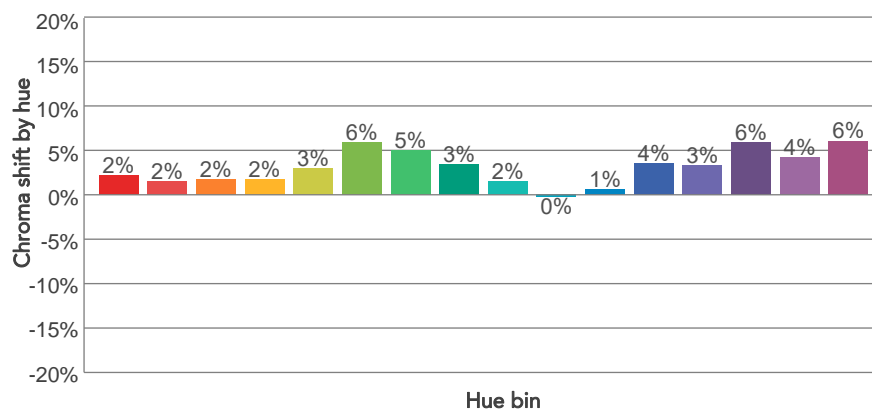
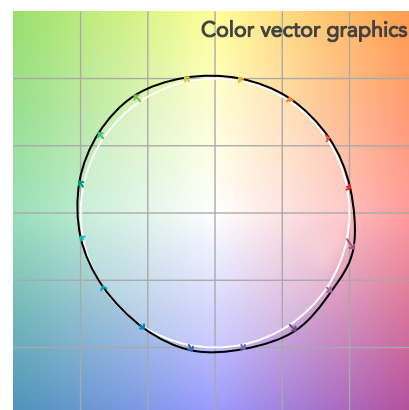
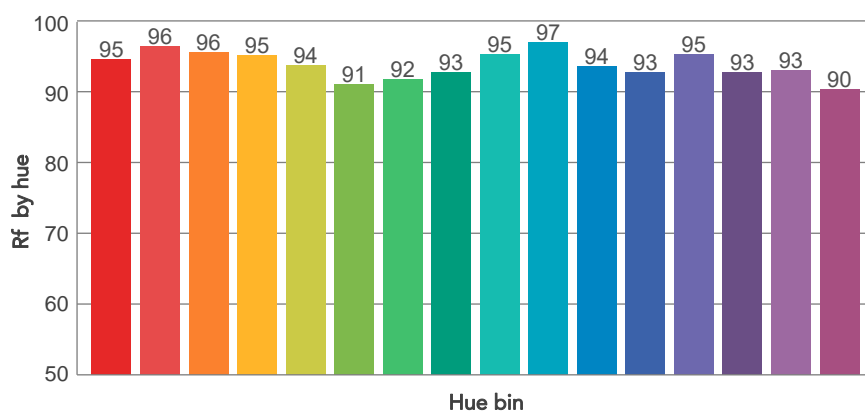
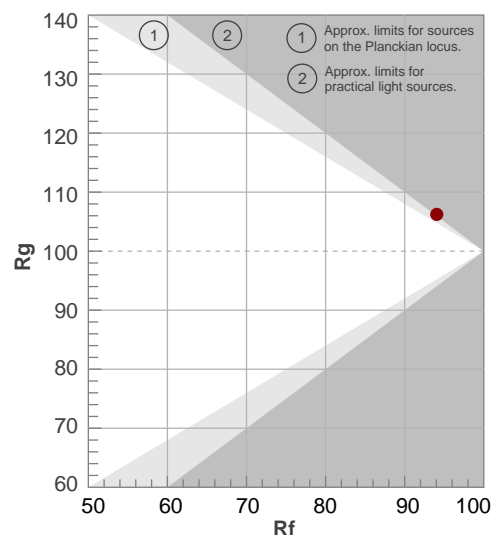
Rf 94,1

Fidelity index Rf

Rg 106,2

Gammut index

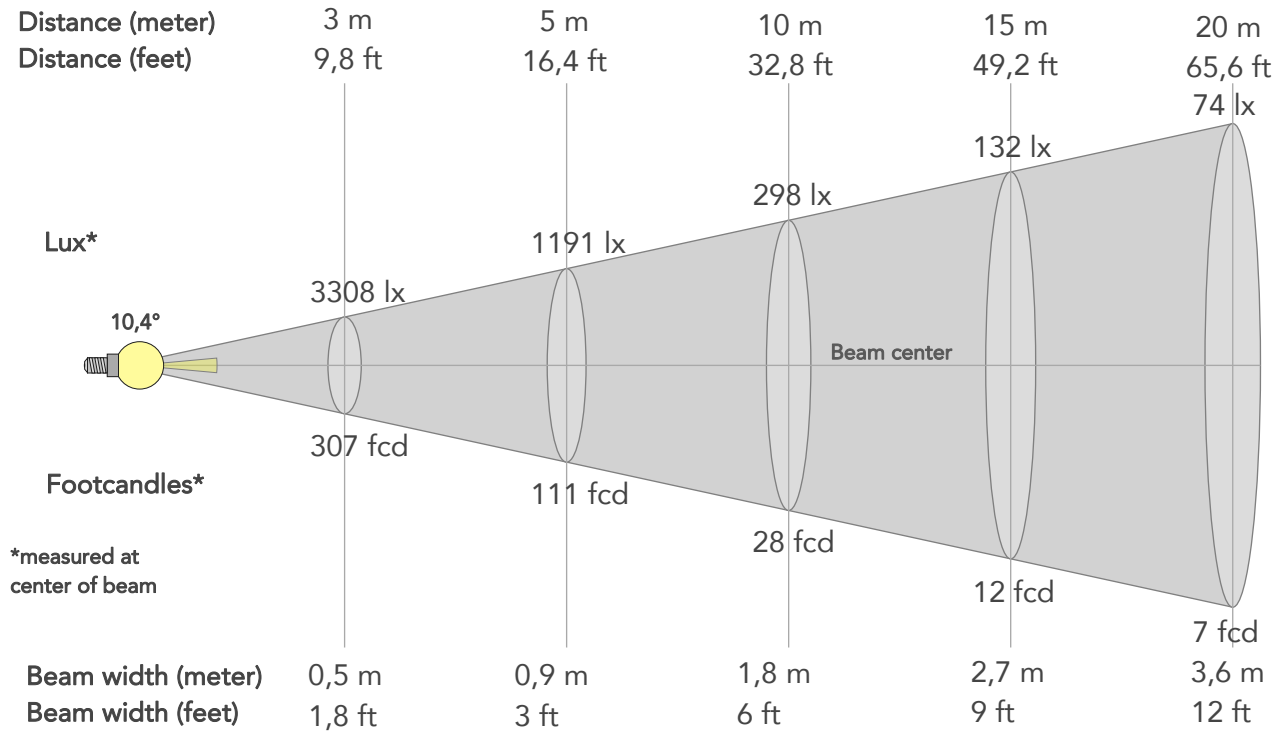
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 95 | 2% | -2% |
| 2 | 96 | 2% | -1% |
| 3 | 96 | 2% | 1% |
| 4 | 95 | 2% | 2% |
| 5 | 94 | 3% | 2% |
| 6 | 91 | 6% | 1% |
| 7 | 92 | 5% | -1% |
| 8 | 93 | 3% | -3% |
| 9 | 95 | 2% | -2% |
| 10 | 97 | 0% | -1% |
| 11 | 94 | 1% | 4% |
| 12 | 93 | 4% | 3% |
| 13 | 95 | 3% | 2% |
| 14 | 93 | 6% | 1% |
| 15 | 93 | 4% | 0% |
| 16 | 90 | 6% | -6% |



BEAM DETAILS



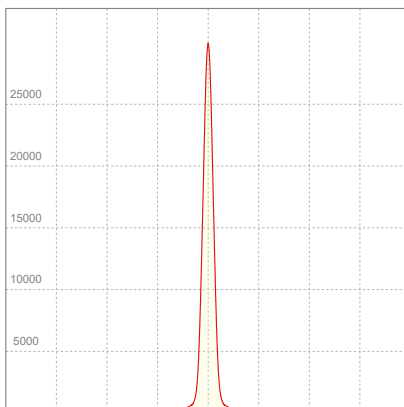
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 10,4° | 18,7° | 27,6° | 97,7% | 94,6% |



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 | 29776lx | 7444lx | 3308lx | 1861lx | 1191lx | 529lx | 298lx | 132lx | 74lx | 48lx | 33lx | 19lx | 12lx |
| Footcand. | 2766fcd | 692fcd | 307fcd | 173fcd | 111fcd | 49fcd | 28fcd | 12fcd | 7fcd | 4fcd | 3fcd | 2fcd | 1fcd |
| Beam wid. | 0,2m | 0,4m | 0,5m | 0,7m | 0,9m | 1,4m | 1,8m | 2,7m | 3,6m | 4,6m | 5,5m | 7,3m | 9,1m |
| Beam wid. | 0,6ft | 1,2ft | 1,8ft | 2,4ft | 3ft | 4,5ft | 6ft | 9ft | 12ft | 15ft | 17,9ft | 23,9ft | 29,9ft |

LINEAR DISTRIBUTION DIAGRAM

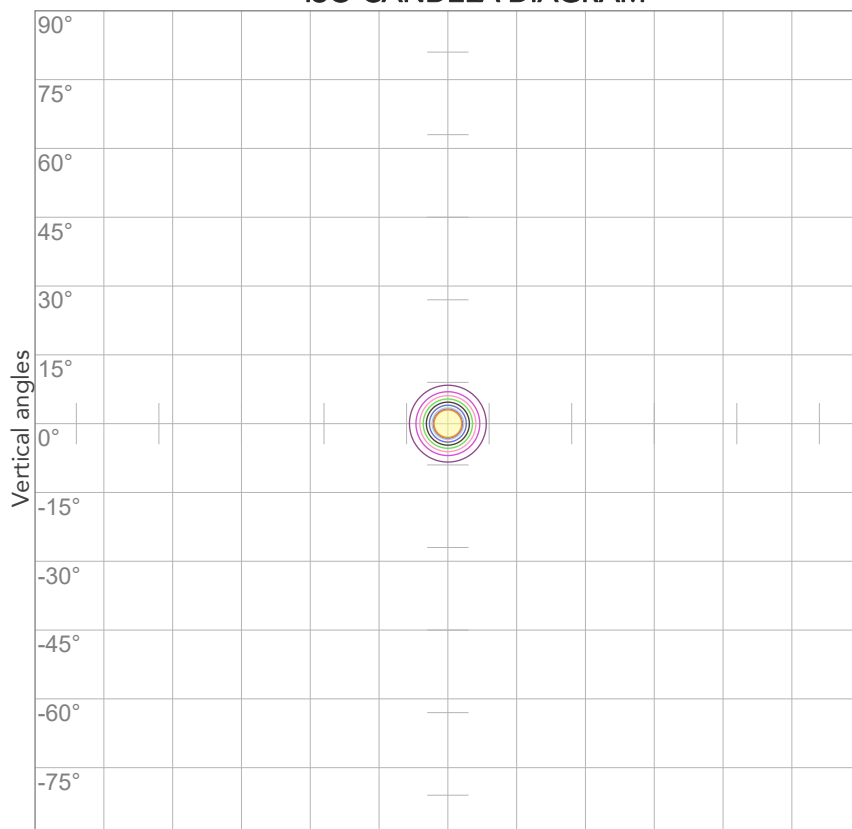


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Effeciency |
|---------------|---------------|-------------|----------|------------|
| 226V | 0,146A | 31,7W | 0,96 | 48lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



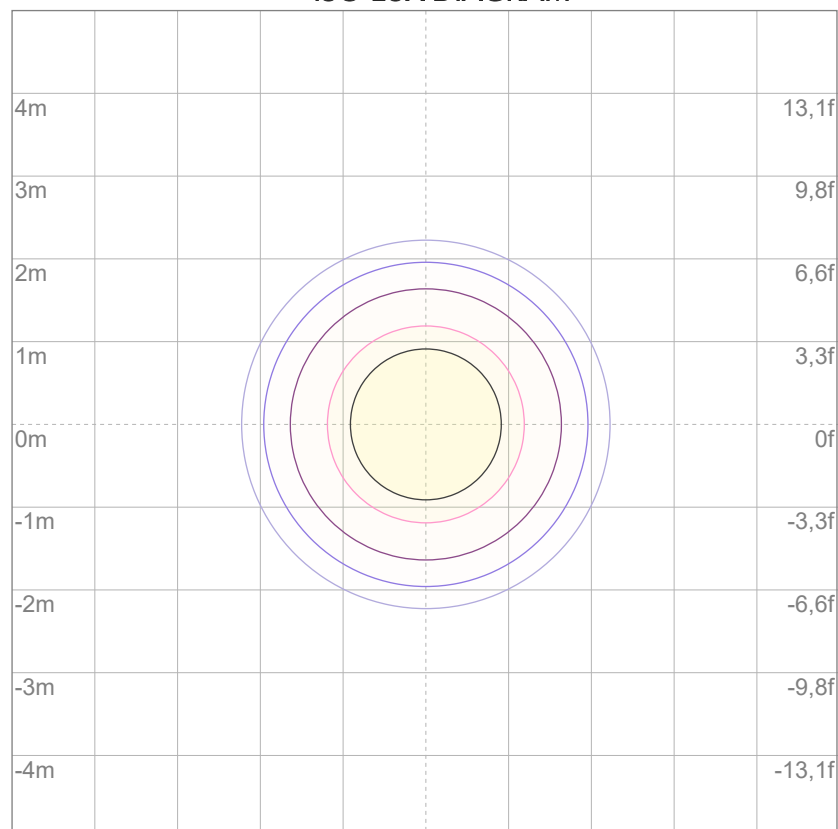
| | |
|-----|----------|
| 10% | 2978 cd |
| 20% | 5955 cd |
| 30% | 8933 cd |
| 40% | 11911 cd |
| 50% | 14888 cd |
| 60% | 17866 cd |
| 70% | 20843 cd |
| 80% | 23821 cd |

Conditions:

Number of c-planes: 2

Candela at center: 29776 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 8,93 lx |
| 5% | 14,9 lx |
| 10% | 29,8 lx |
| 30% | 89,3 lx |
| 50% | 149 lx |

Conditions:

Number of c-planes: 2

Lux at center: 298 lx

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



Total lumen output:

1376 lm

Peak candela output:

5603 cd

Light quality:

CRI: 94,0

Color temperature:

3230 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 20° Filter

Target:

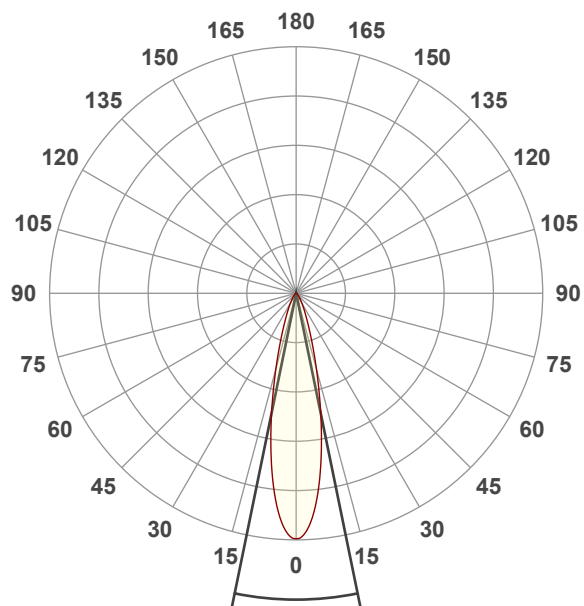
3200K

Operator:

Salvatore Giglio

Date and time:

19/02/2024 17:19:30

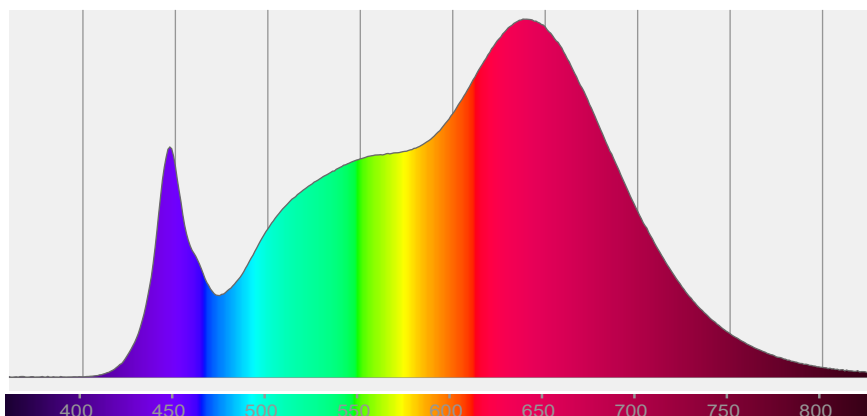


Beam angle 50%: 23,2°

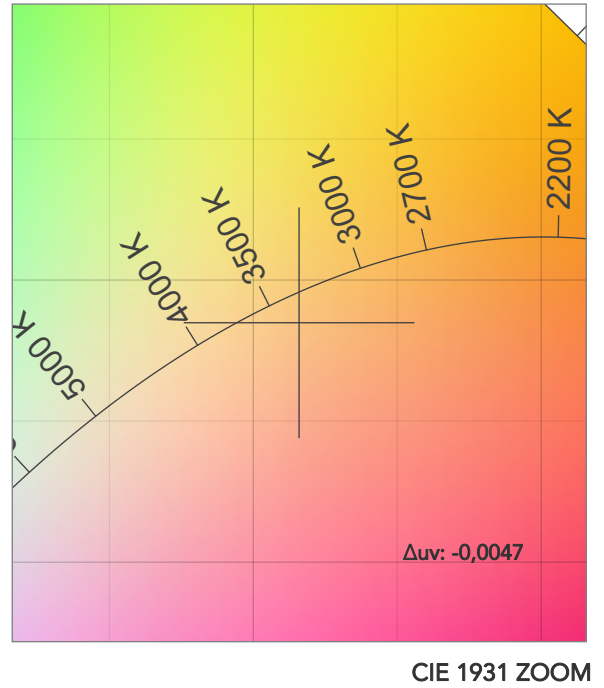
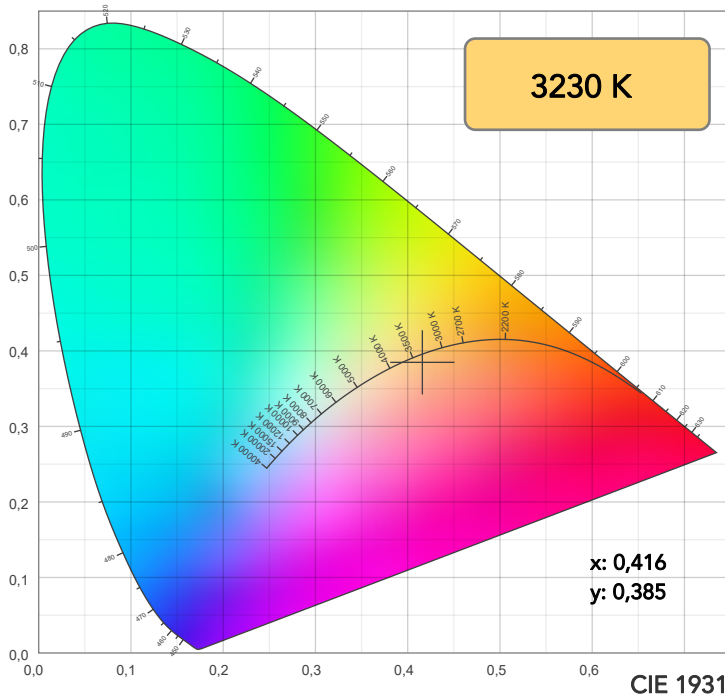
Field angle 10%: 46,9°

Cut off angle 2.5%: 72,9°

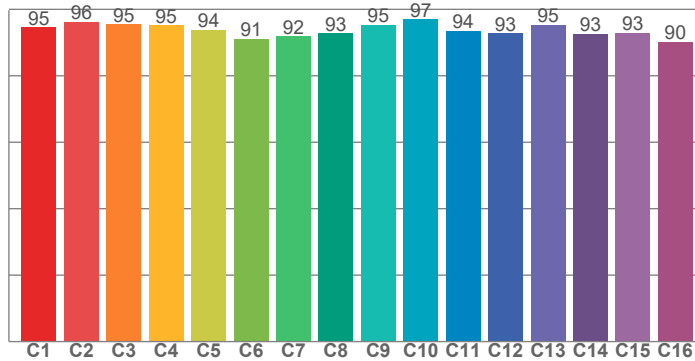
Spectra



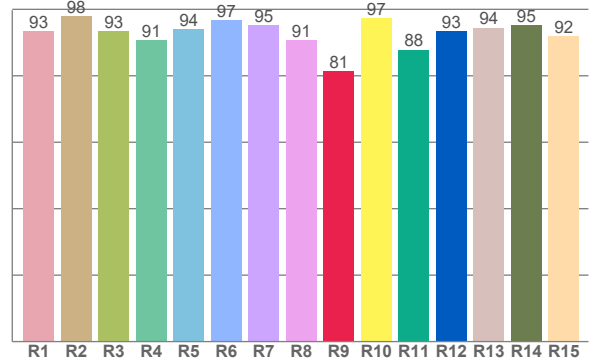
COLOR DETAILS



TM30: 94,0



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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 93,5 | 97,9 | 93,4 | 90,6 | 94,0 | 96,7 | 95,2 | 90,6 | 81,3 | 97,4 | 87,8 | 93,3 | 94,5 | 95,3 | 91,8 |

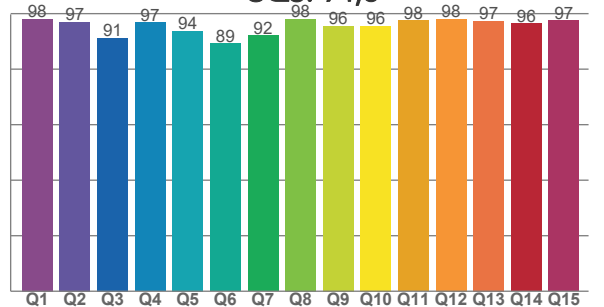
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,5 | 96,3 | 95,4 | 95,2 | 93,8 | 91,1 | 91,8 | 92,7 | 95,3 | 97,0 | 93,5 | 92,7 | 95,3 | 92,7 | 93,0 | 90,2 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 98,1 | 97,1 | 91,2 | 96,8 | 93,8 | 89,2 | 92,1 | 98,1 | 95,5 | 95,5 | 97,6 | 98,1 | 97,3 | 96,5 | 97,4 |

CQS: 94,6



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 |
| 3230 K | 94,0 | 81,3 | 94,0 | 106,3 | 94,6 | 96 | 0,416 | 0,385 | -0,0047 |

TM30 DETAILS

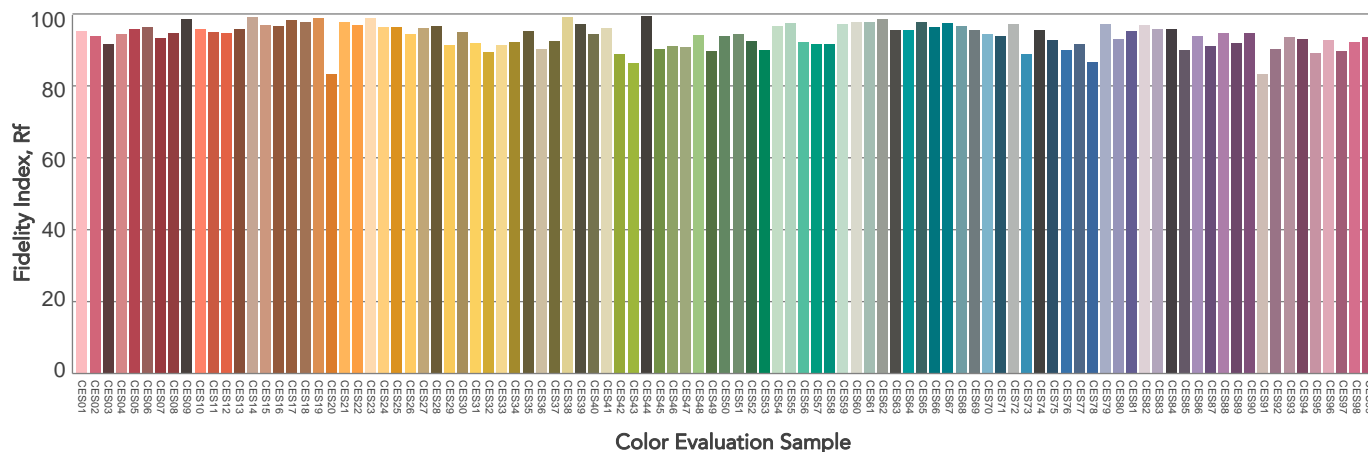
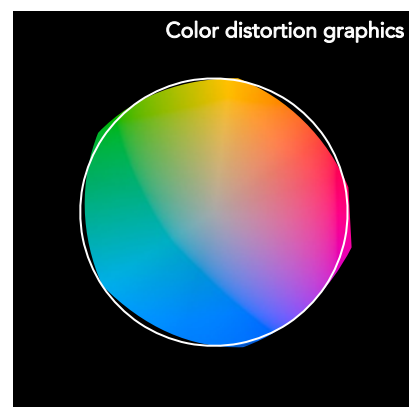
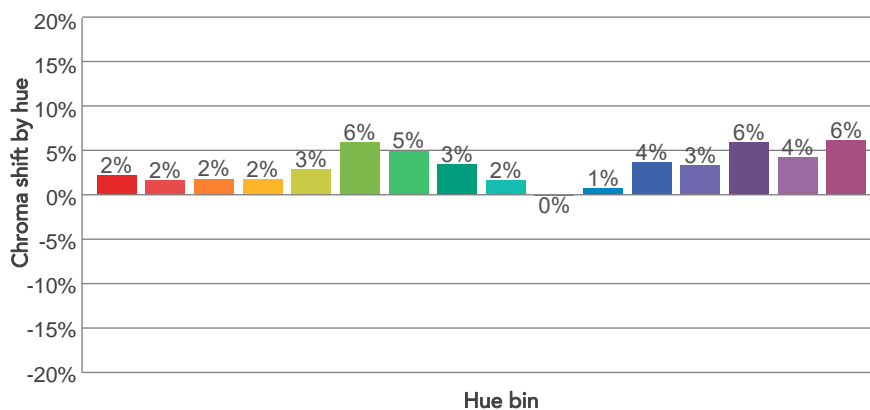
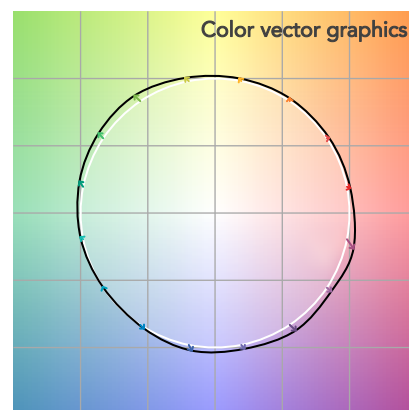
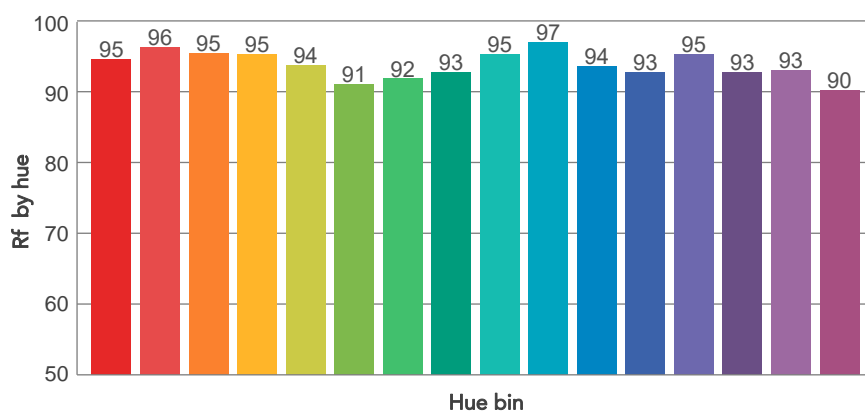
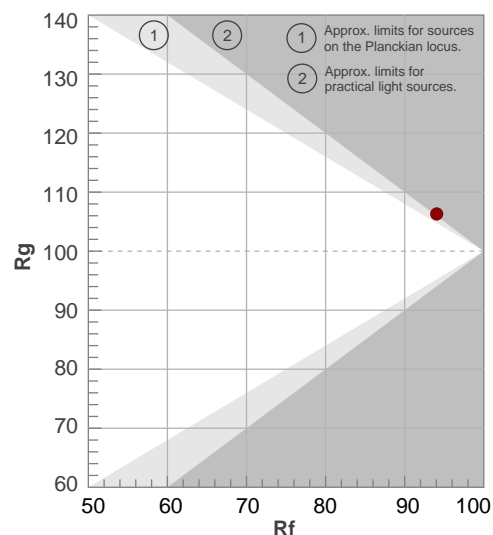
Rf 94,0

Fidelity index Rf

Rg 106,3

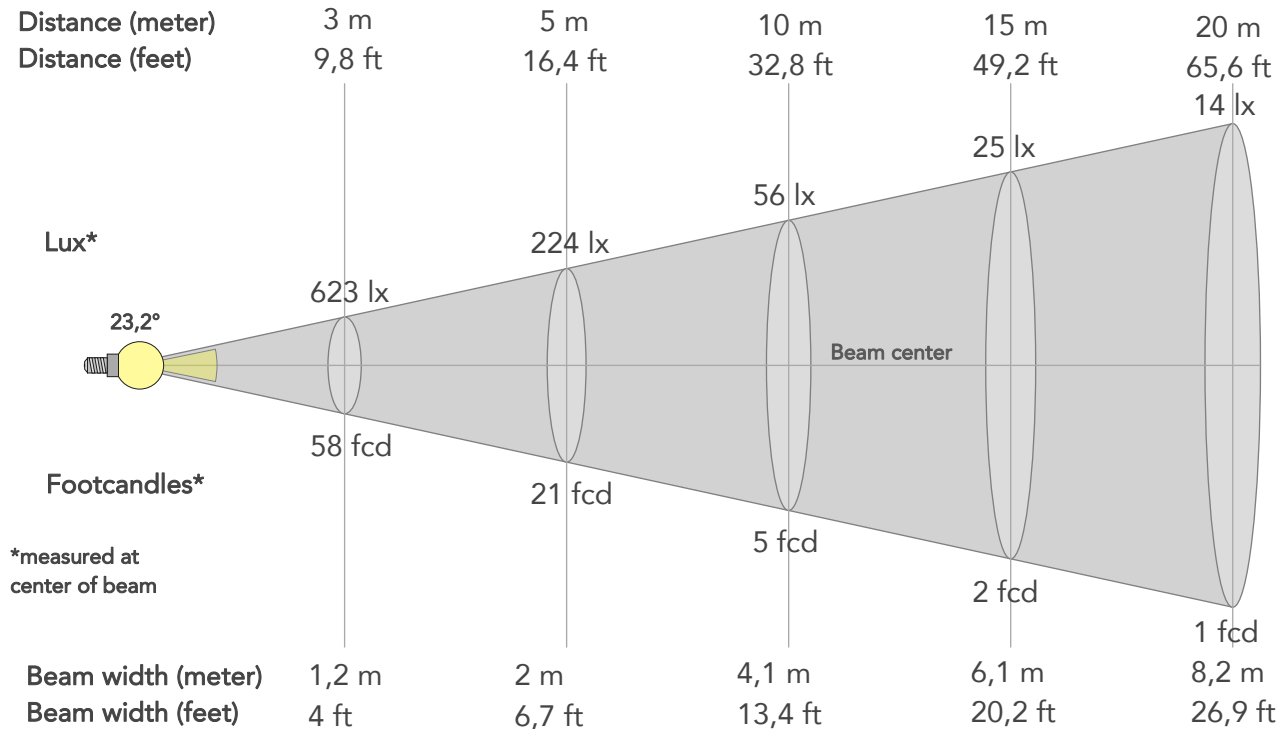
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 95 | 2% | -1% |
| 2 | 96 | 2% | -1% |
| 3 | 95 | 2% | 1% |
| 4 | 95 | 2% | 2% |
| 5 | 94 | 3% | 2% |
| 6 | 91 | 6% | 1% |
| 7 | 92 | 5% | -1% |
| 8 | 93 | 3% | -3% |
| 9 | 95 | 2% | -2% |
| 10 | 97 | 0% | -1% |
| 11 | 94 | 1% | 4% |
| 12 | 93 | 4% | 3% |
| 13 | 95 | 3% | 2% |
| 14 | 93 | 6% | 1% |
| 15 | 93 | 4% | 0% |
| 16 | 90 | 6% | -6% |



BEAM DETAILS

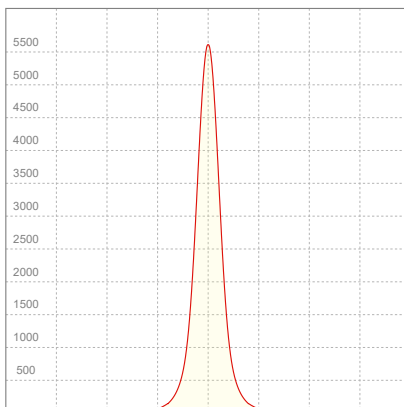
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 23,2° | 46,9° | 72,9° | 97,0% | 92,7% |



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 | 5603lx | 1401lx | 623lx | 350lx | 224lx | 100lx | 56lx | 25lx | 14lx | 9lx | 6lx | 4lx | 2lx |
| Footcand. | 520fcd | 130fcd | 58fcd | 33fcd | 21fcd | 9fcd | 5fcd | 2fcd | 1fcd | 1fcd | 1fcd | 0fcd | 0fcd |
| Beam wid. | 0,4m | 0,8m | 1,2m | 1,6m | 2m | 3,1m | 4,1m | 6,1m | 8,2m | 10,2m | 12,3m | 16,4m | 20,5m |
| Beam wid. | 1,4ft | 2,7ft | 4ft | 5,4ft | 6,7ft | 10,1ft | 13,4ft | 20,2ft | 26,9ft | 33,6ft | 40,3ft | 53,7ft | 67,2ft |

LINEAR DISTRIBUTION DIAGRAM

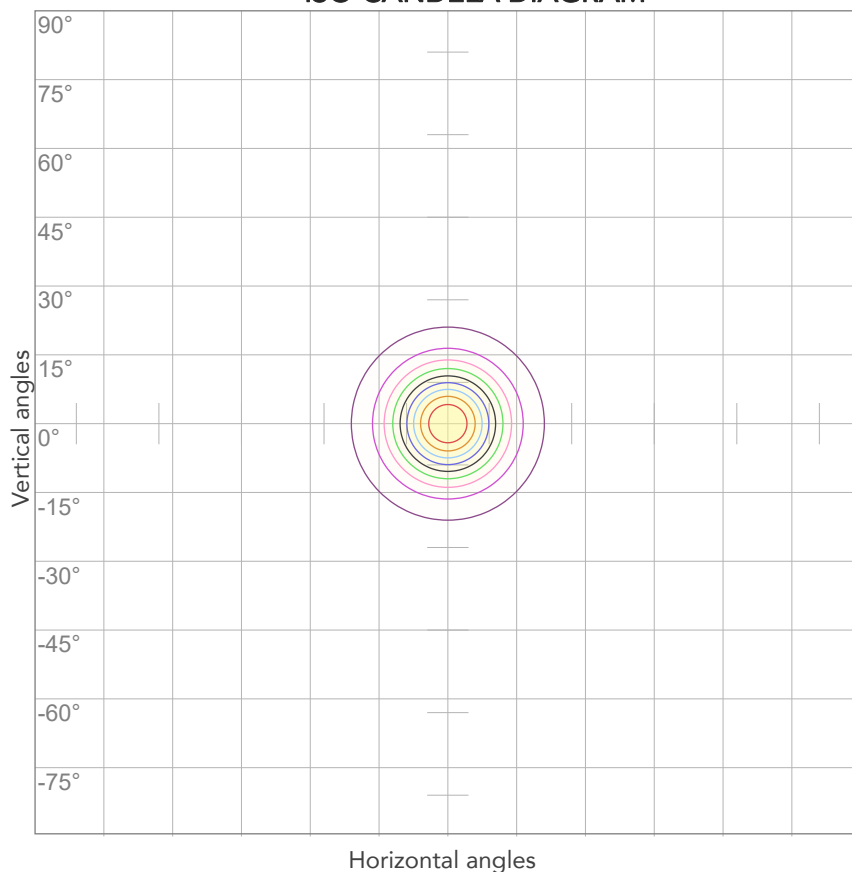


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Efficiency |
|---------------|---------------|-------------|----------|------------|
| 226V | 0,145A | 31,4W | 0,96 | 44lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



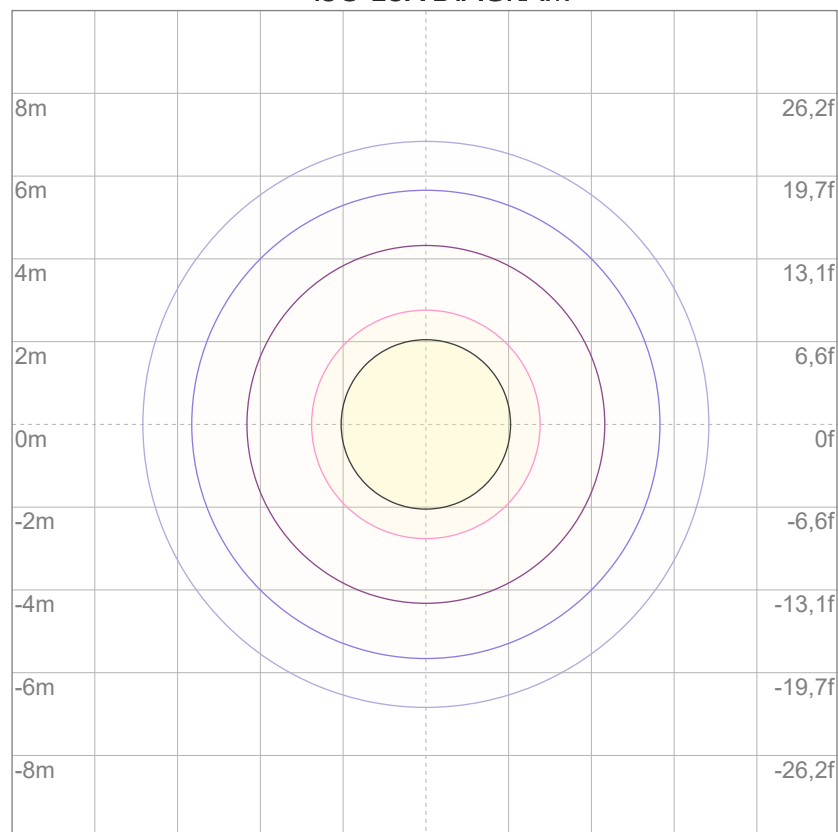
| | |
|-----|---------|
| 10% | 560 cd |
| 20% | 1121 cd |
| 30% | 1681 cd |
| 40% | 2241 cd |
| 50% | 2801 cd |
| 60% | 3362 cd |
| 70% | 3922 cd |
| 80% | 4482 cd |

Conditions:

Number of c-planes: 2

Candela at center: 5603 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 1,68 lx |
| 5% | 2,80 lx |
| 10% | 5,60 lx |
| 30% | 16,8 lx |
| 50% | 28,0 lx |

Conditions:

Number of c-planes: 2

Lux at center: 56,0 lx

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



Total lumen output:

1317 lm

Peak candela output:

1631 cd

Light quality:

CRI: 93,9

Color temperature:

3233 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 40° Filter

Target:

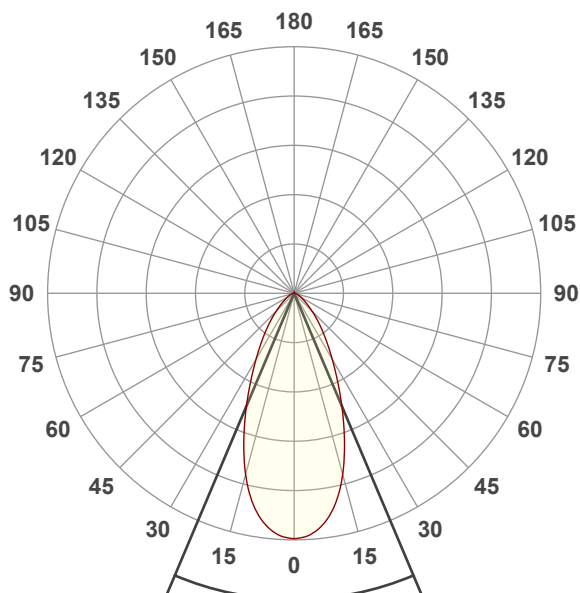
3200K

Operator:

Salvatore Giglio

Date and time:

19/02/2024 17:41:55

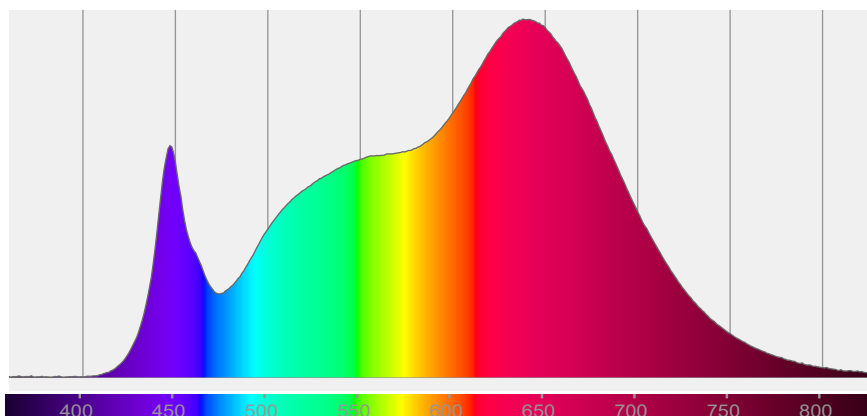


Beam angle 50%: 45,8°

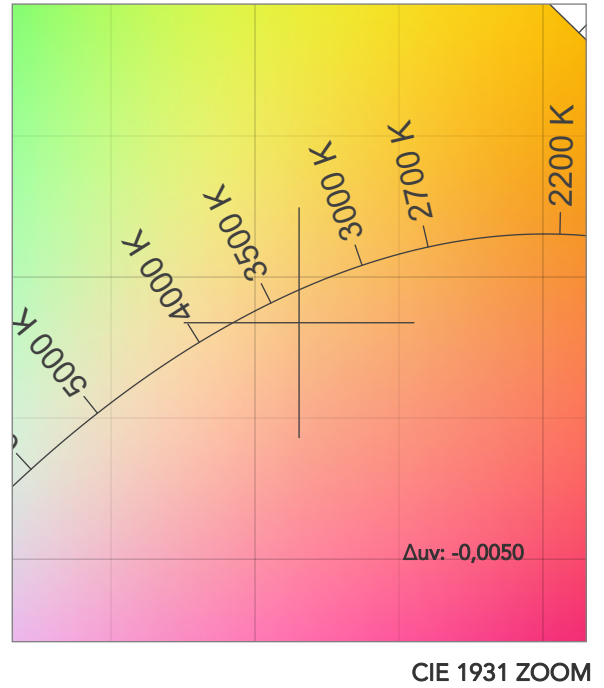
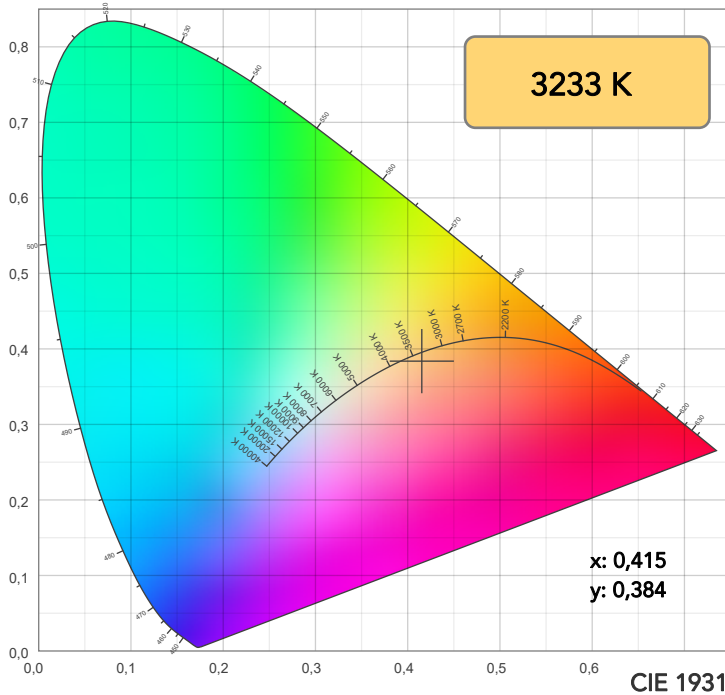
Field angle 10%: 91,1°

Cut off angle 2.5%: 128°

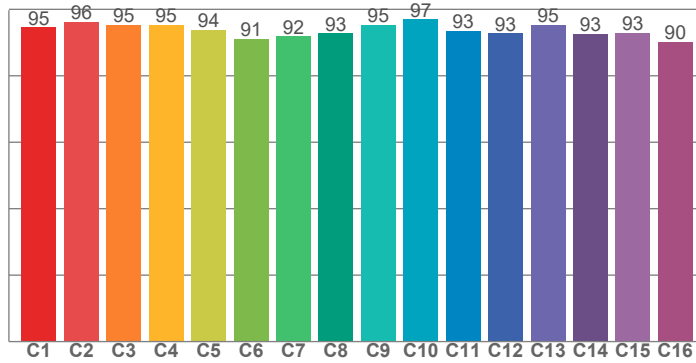
Spectra



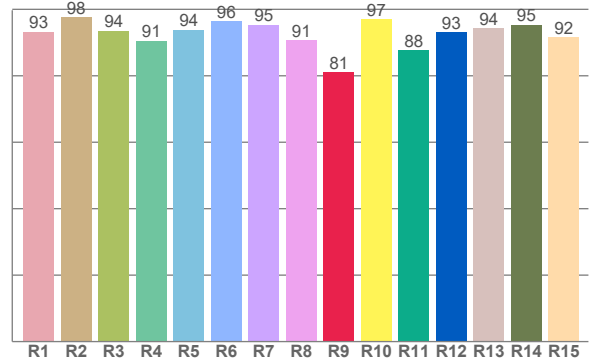
COLOR DETAILS



TM30: 94,0



CRI: 93,9 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 93,3 | 97,7 | 93,5 | 90,6 | 93,8 | 96,5 | 95,4 | 90,6 | 81,1 | 97,0 | 87,7 | 93,1 | 94,2 | 95,4 | 91,6 |

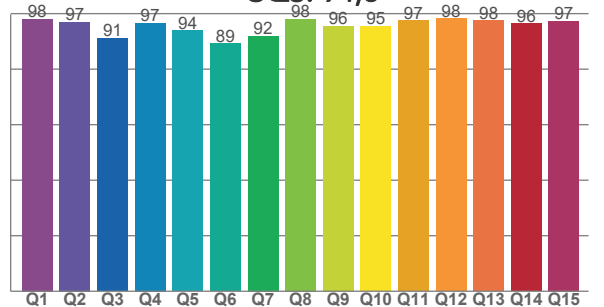
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,5 | 96,3 | 95,3 | 95,2 | 93,8 | 91,1 | 91,8 | 92,8 | 95,3 | 97,0 | 93,5 | 92,7 | 95,3 | 92,7 | 92,9 | 90,2 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 98,1 | 97,1 | 91,1 | 96,7 | 93,9 | 89,3 | 92,0 | 98,1 | 95,5 | 95,5 | 97,4 | 98,3 | 97,5 | 96,4 | 97,4 |

CQS: 94,6



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 |
| 3233 K | 93,9 | 81,1 | 94,0 | 106,4 | 94,6 | 96 | 0,415 | 0,384 | -0,0050 |

TM30 DETAILS

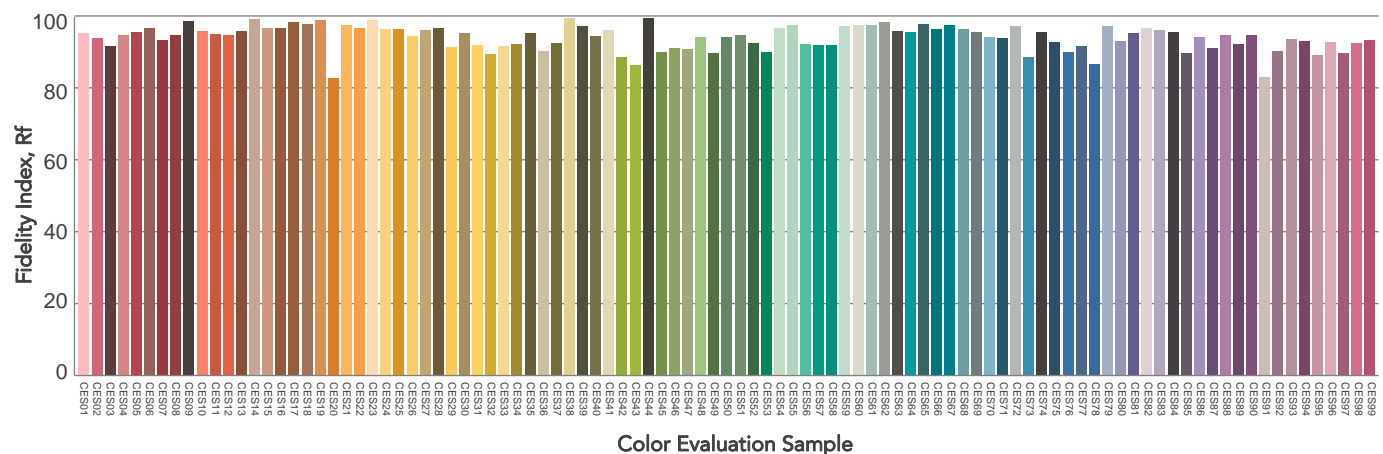
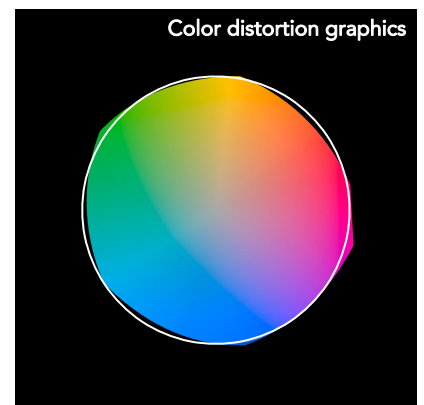
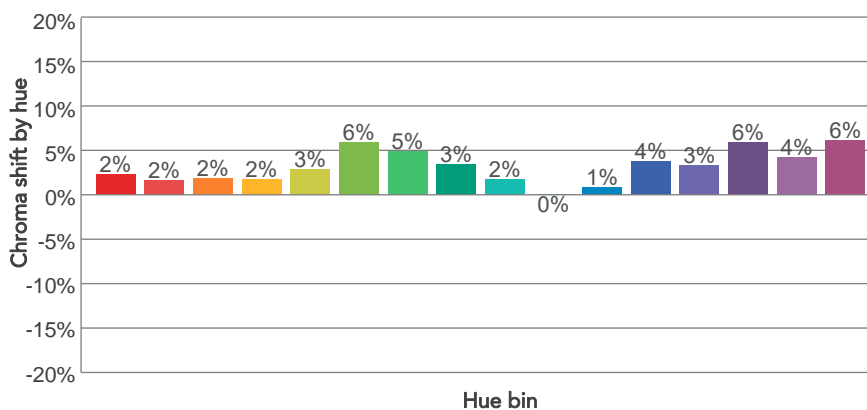
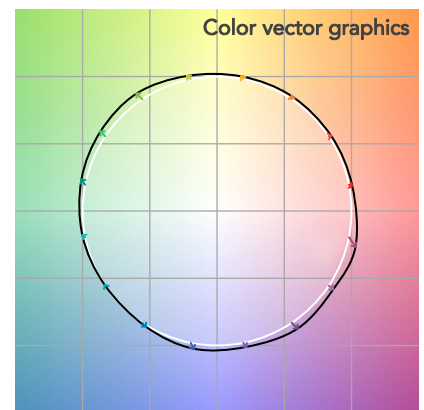
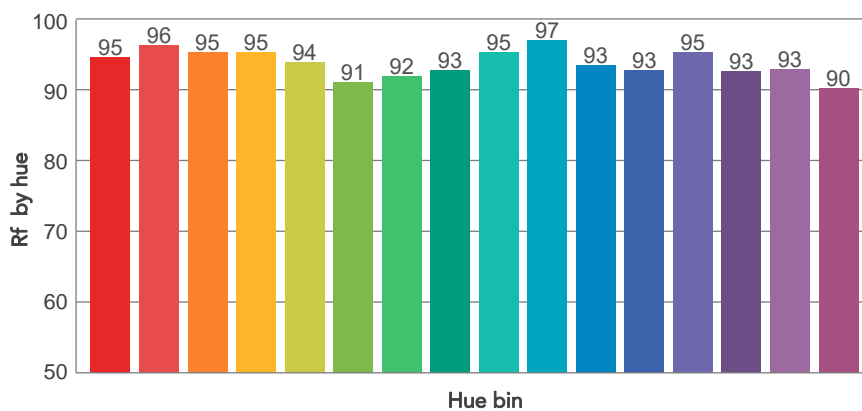
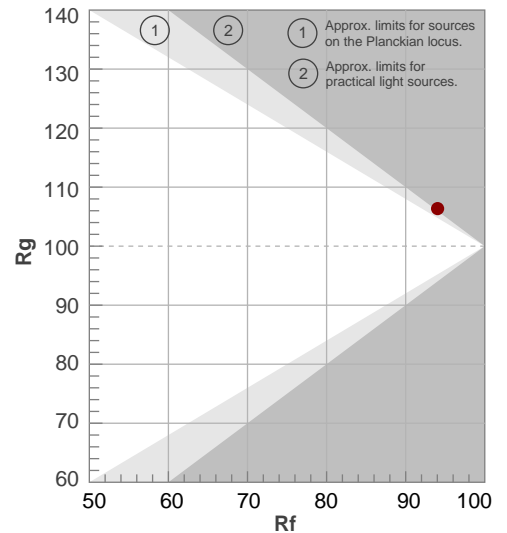
Rf 94,0

Fidelity index R_f

Rg 106,4

Gammut index

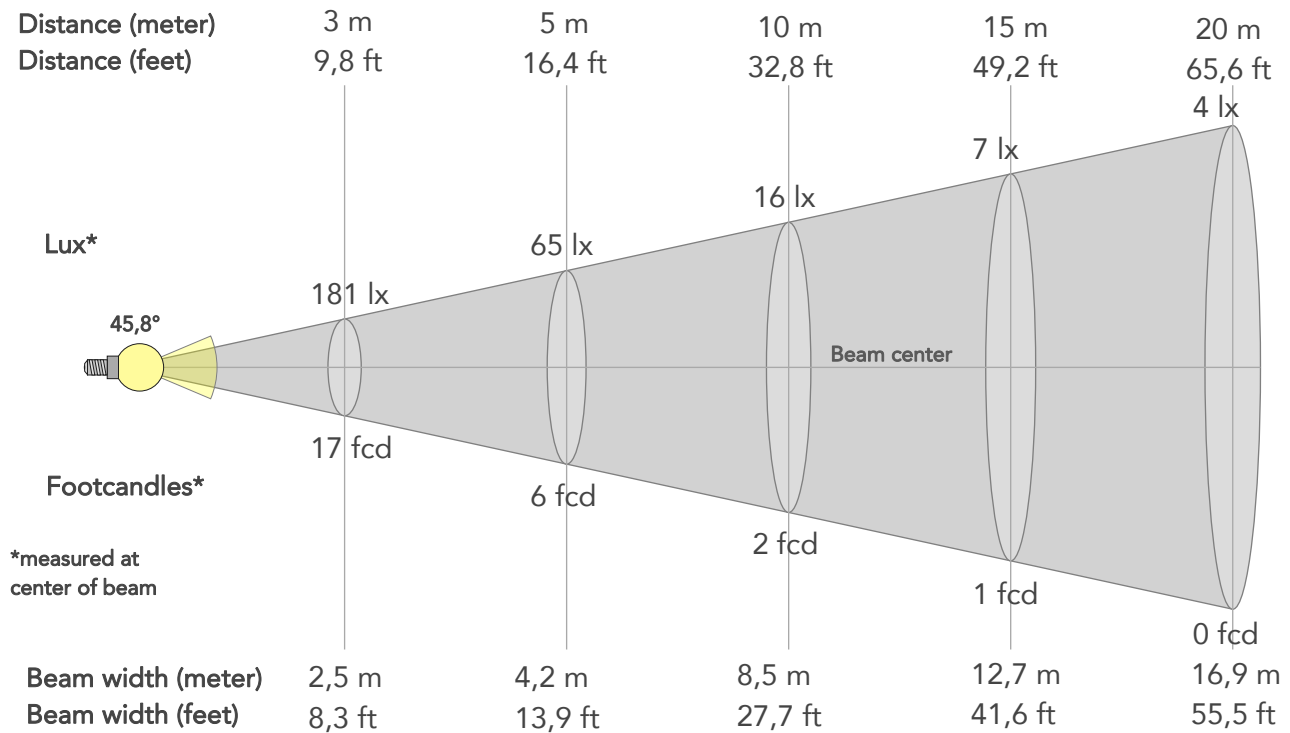
| | | Graphic shifts (%) | |
|---------|-------|--------------------|-----|
| Hue Bin | R_f | Chroma | Hue |
| 1 | 95 | 2% | -1% |
| 2 | 96 | 2% | -1% |
| 3 | 95 | 2% | 1% |
| 4 | 95 | 2% | 2% |
| 5 | 94 | 3% | 2% |
| 6 | 91 | 6% | 1% |
| 7 | 92 | 5% | -1% |
| 8 | 93 | 3% | -3% |
| 9 | 95 | 2% | -2% |
| 10 | 97 | 0% | -1% |
| 11 | 93 | 1% | 4% |
| 12 | 93 | 4% | 3% |
| 13 | 95 | 3% | 2% |
| 14 | 93 | 6% | 1% |
| 15 | 93 | 4% | 0% |
| 16 | 90 | 6% | -6% |



BEAM DETAILS



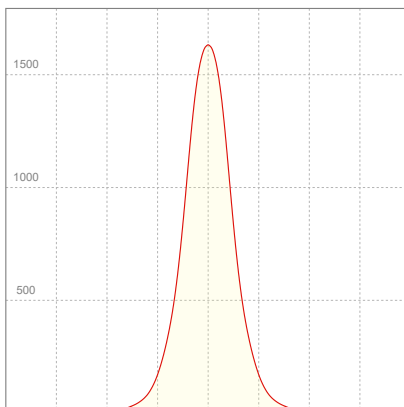
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 45,8° | 91,1° | 128° | 94,9% | 85,3% |



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 | 1631lx | 408lx | 181lx | 102lx | 65lx | 29lx | 16lx | 7lx | 4lx | 3lx | 2lx | 1lx | 1lx |
| Footcand. | 151fcd | 38fcd | 17fcd | 9fcd | 6fcd | 3fcd | 2fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,8m | 1,7m | 2,5m | 3,4m | 4,2m | 6,3m | 8,5m | 12,7m | 16,9m | 21,1m | 25,4m | 33,8m | 42,3m |
| Beam wid. | 2,8ft | 5,6ft | 8,3ft | 11,1ft | 13,9ft | 20,8ft | 27,7ft | 41,6ft | 55,5ft | 69,4ft | 83,2ft | 111ft | 138,7ft |

LINEAR DISTRIBUTION DIAGRAM

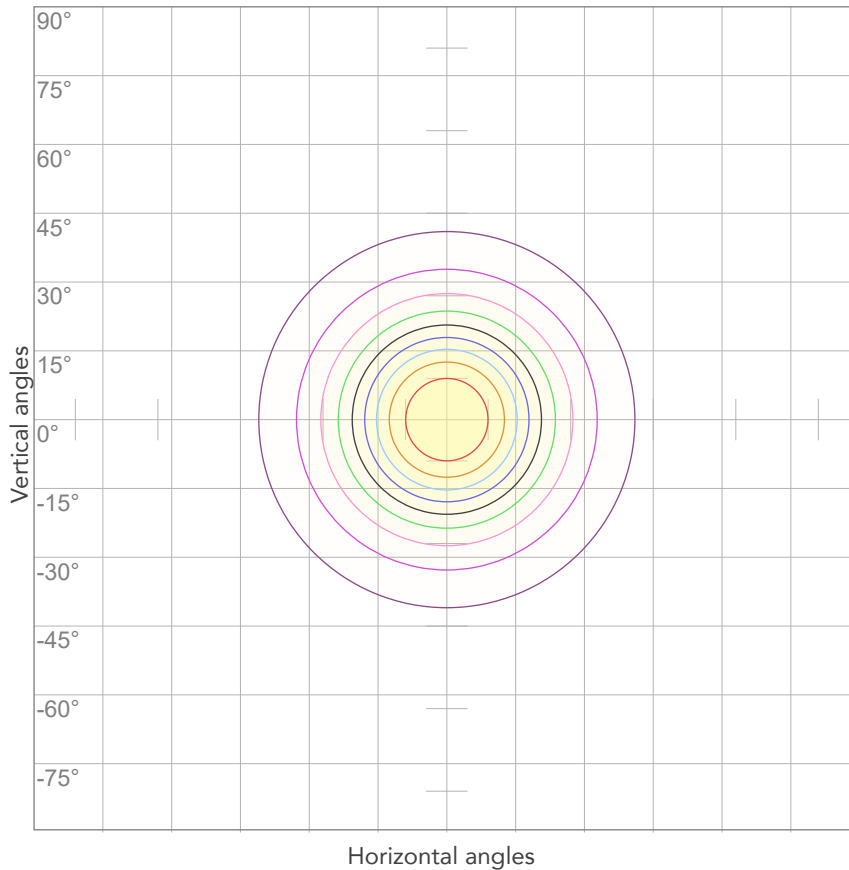


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Effeciency |
|---------------|---------------|-------------|----------|------------|
| 226V | 0,145A | 31,2W | 0,95 | 42lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



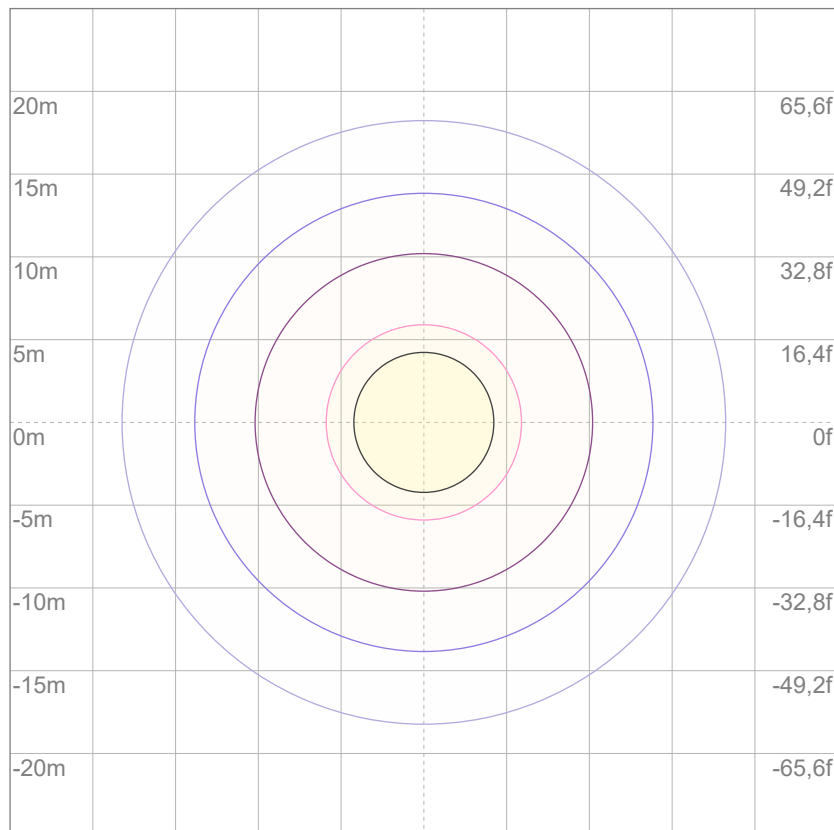
| | |
|-----|---------|
| 10% | 163 cd |
| 20% | 326 cd |
| 30% | 489 cd |
| 40% | 652 cd |
| 50% | 815 cd |
| 60% | 978 cd |
| 70% | 1141 cd |
| 80% | 1304 cd |

Conditions:

Number of c-planes: 2

Candela at center: 1631 cd

ISO LUX DIAGRAM



| | |
|-----|----------|
| 3% | 0,489 lx |
| 5% | 0,815 lx |
| 10% | 1,63 lx |
| 30% | 4,89 lx |
| 50% | 8,15 lx |

Conditions:

Number of c-planes: 2

Lux at center: 16,3 lx

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



Total lumen output:

1329 lm

Peak candela output:

1213 cd

Light quality:

CRI: 94,2

Color temperature:

3256 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 60° Filter

Target:

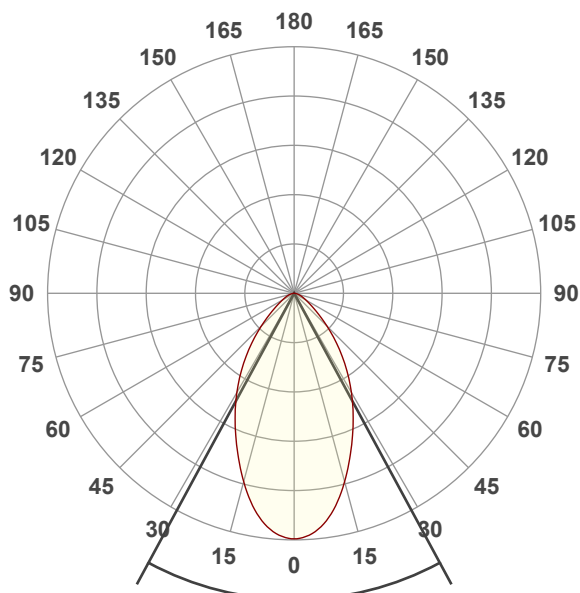
3200K

Operator:

Salvatore Giglio

Date and time:

20/02/2024 09:21:45

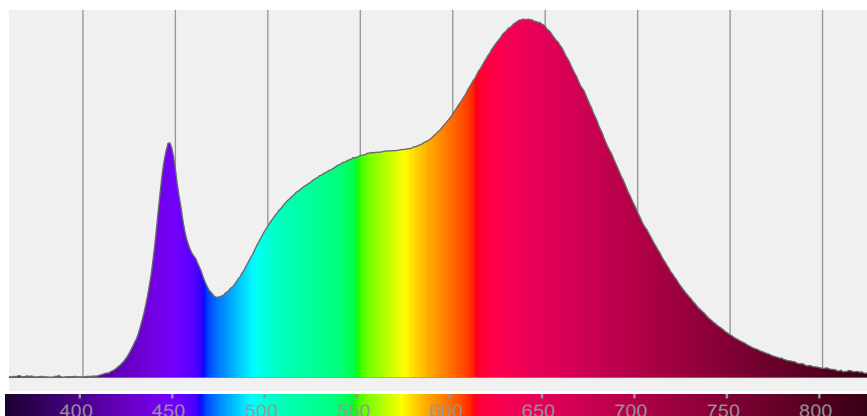


Beam angle 50%: 56,8°

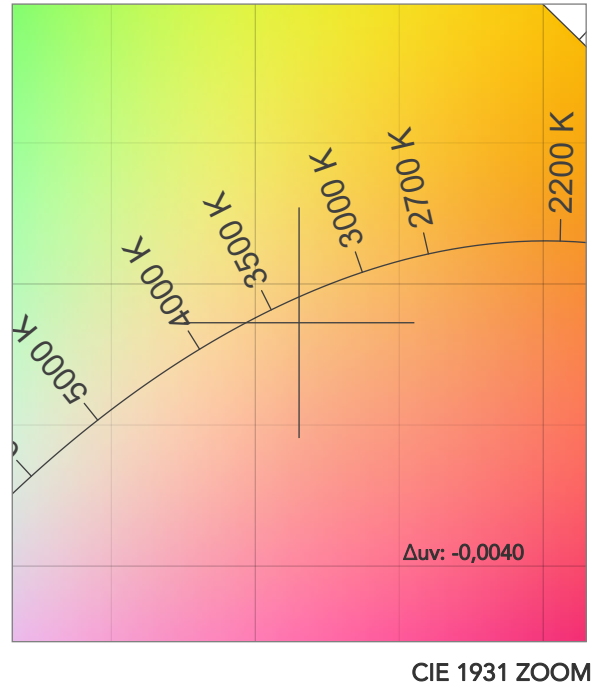
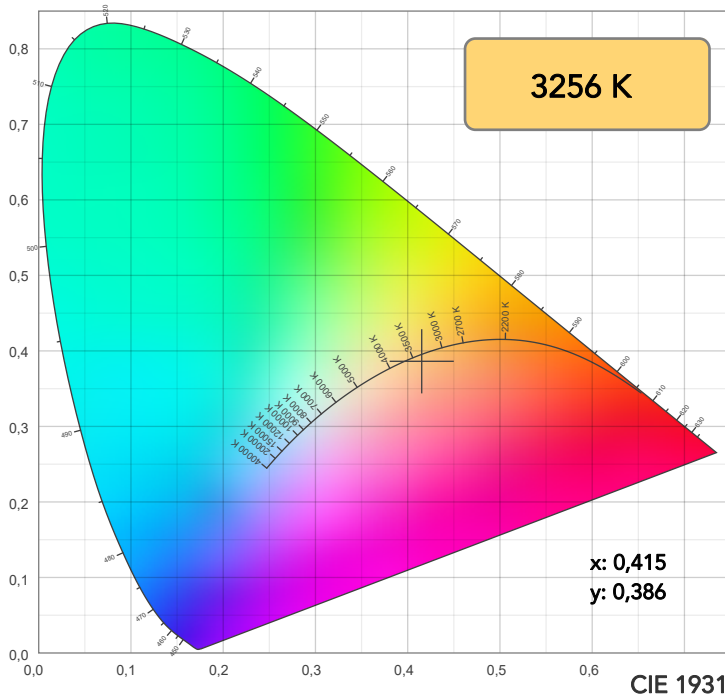
Field angle 10%: 105,2°

Cut off angle 2.5%: 142,8°

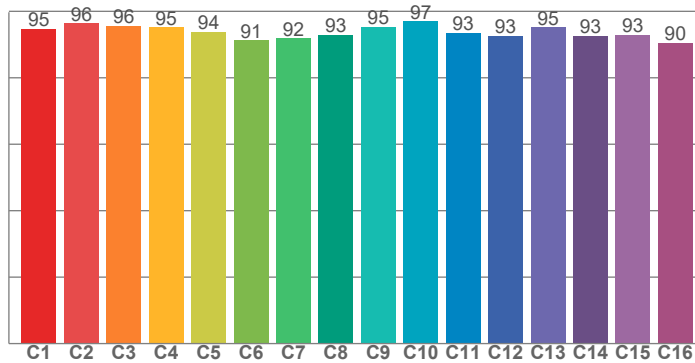
Spectra



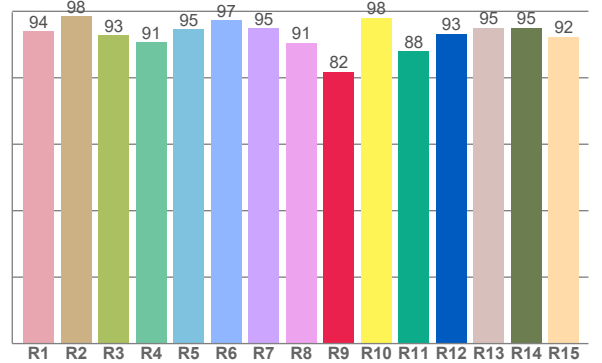
COLOR DETAILS



TM30: 94,1



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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,0 | 98,4 | 92,9 | 90,7 | 94,5 | 97,4 | 94,8 | 90,6 | 81,8 | 98,1 | 88,1 | 93,3 | 95,1 | 95,1 | 92,3 |

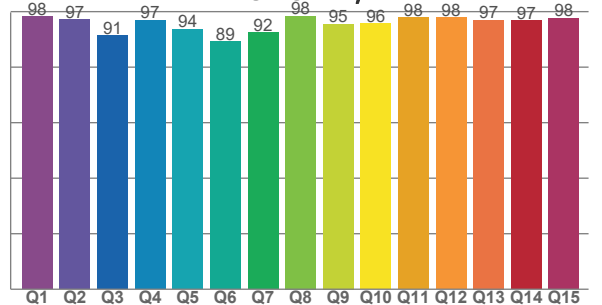
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,7 | 96,4 | 95,7 | 95,2 | 93,8 | 91,2 | 91,9 | 92,9 | 95,3 | 97,0 | 93,4 | 92,7 | 95,2 | 92,6 | 93,0 | 90,4 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 98,2 | 97,1 | 91,4 | 96,9 | 93,7 | 89,2 | 92,4 | 98,4 | 95,5 | 95,6 | 97,8 | 97,9 | 97,0 | 96,8 | 97,6 |

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 |
| 3256 K | 94,2 | 81,8 | 94,1 | 106,1 | 94,7 | 97 | 0,415 | 0,386 | -0,0040 |

TM30 DETAILS

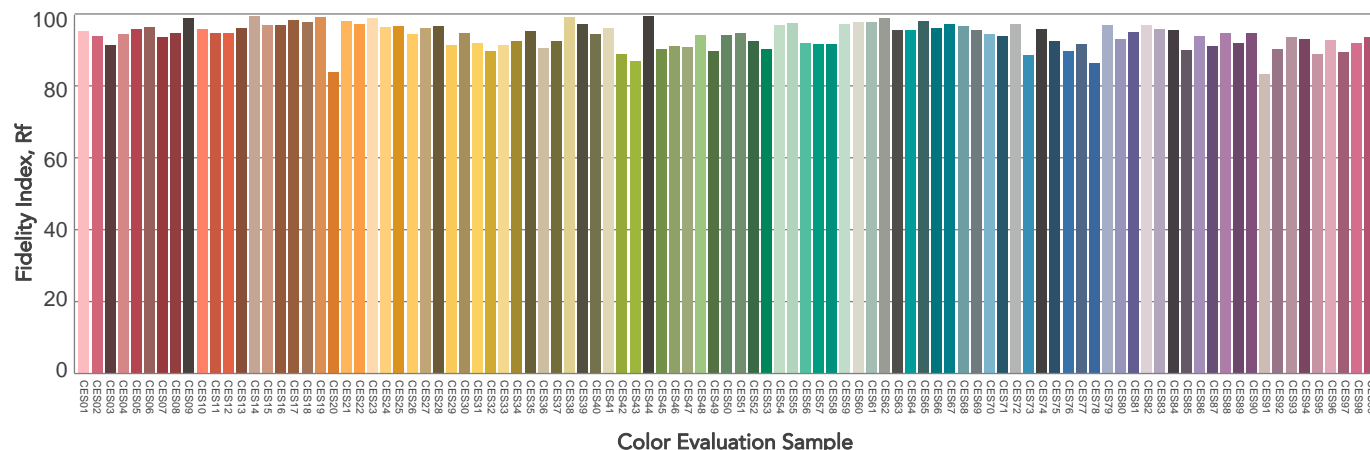
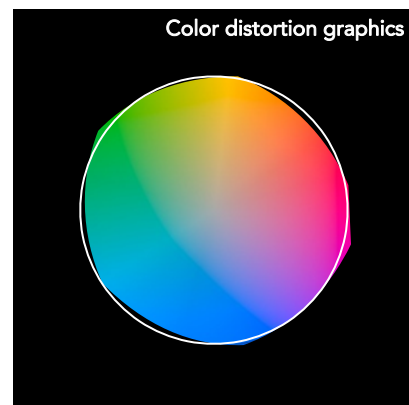
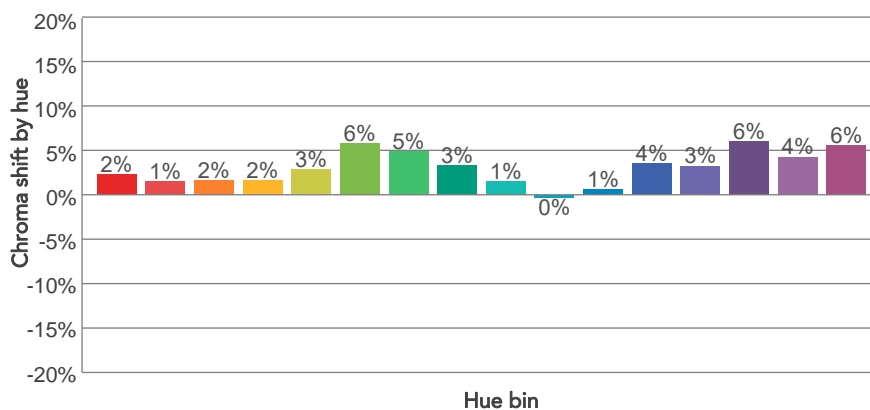
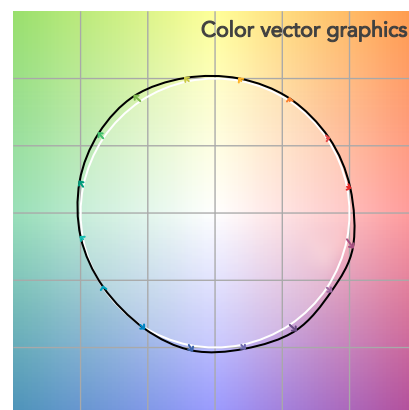
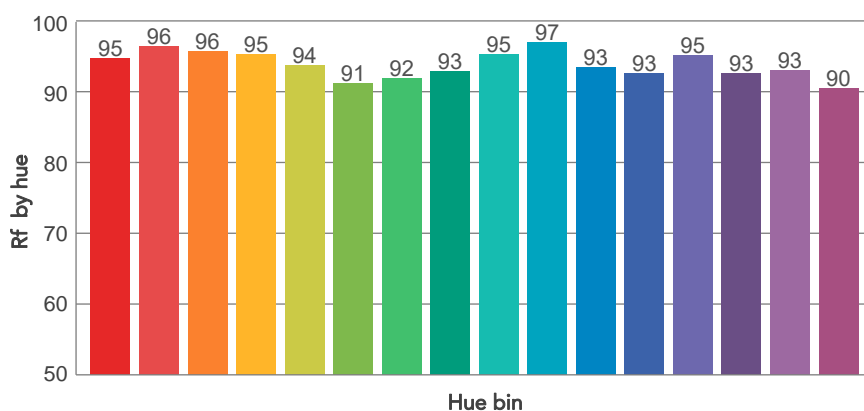
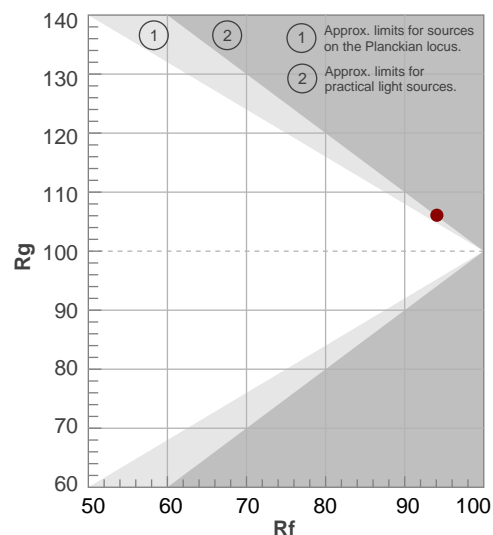
Rf 94,1

Fidelity index Rf

Rg 106,1

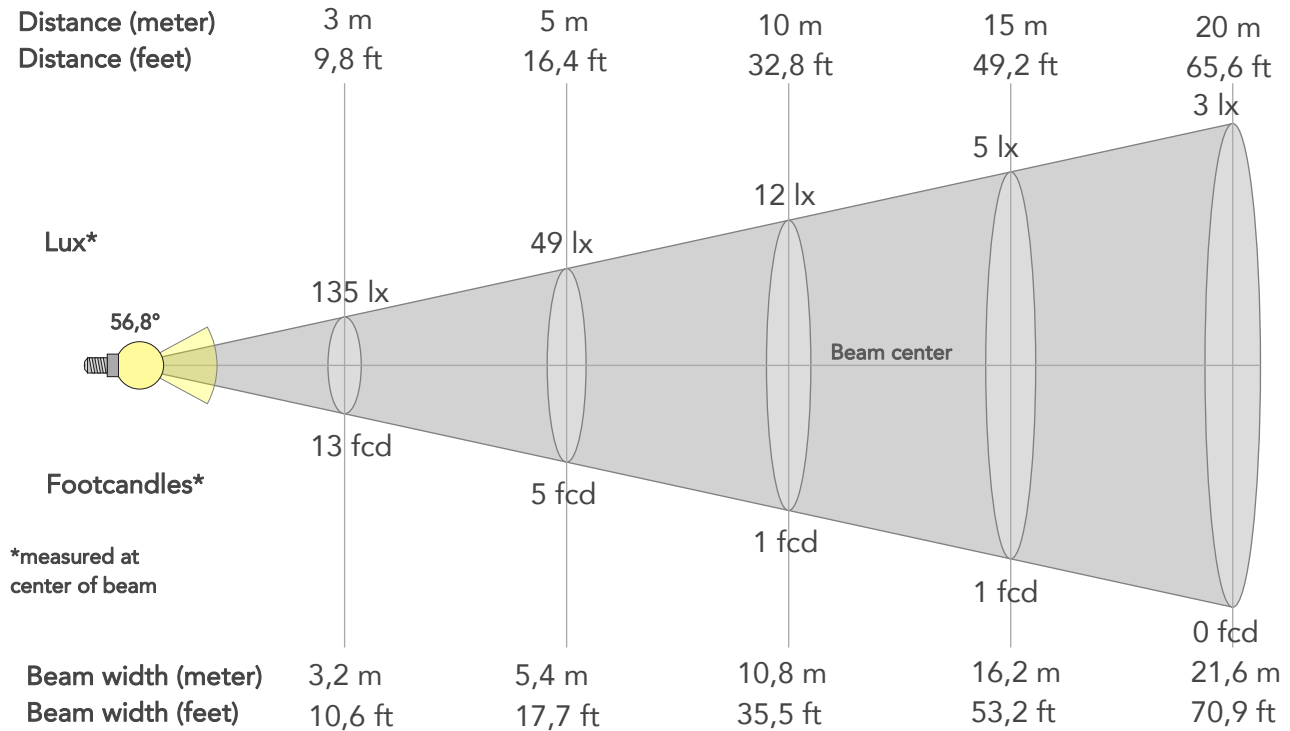
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 95 | 2% | -1% |
| 2 | 96 | 1% | -1% |
| 3 | 96 | 2% | 1% |
| 4 | 95 | 2% | 2% |
| 5 | 94 | 3% | 2% |
| 6 | 91 | 6% | 1% |
| 7 | 92 | 5% | -1% |
| 8 | 93 | 3% | -3% |
| 9 | 95 | 1% | -2% |
| 10 | 97 | 0% | -1% |
| 11 | 93 | 1% | 4% |
| 12 | 93 | 4% | 3% |
| 13 | 95 | 3% | 2% |
| 14 | 93 | 6% | 1% |
| 15 | 93 | 4% | 0% |
| 16 | 90 | 6% | -5% |



BEAM DETAILS

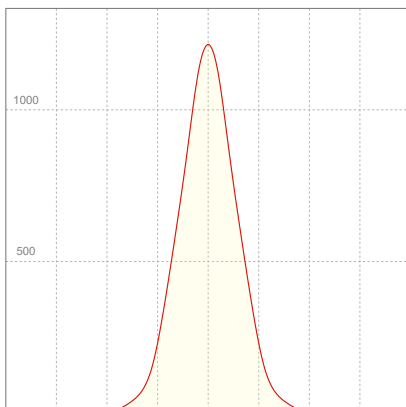
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 56,8° | 105,2° | 142,8° | 93,7% | 81,1% |



BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|-----------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 1213lx | 303lx | 135lx | 76lx | 49lx | 22lx | 12lx | 5lx | 3lx | 2lx | 1lx | 1lx | 0lx |
| Footcand. | 113fcd | 28fcd | 13fcd | 7fcd | 5fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 1,1m | 2,2m | 3,2m | 4,3m | 5,4m | 8,1m | 10,8m | 16,2m | 21,6m | 27m | 32,4m | 43,2m | 54,1m |
| Beam wid. | 3,6ft | 7,1ft | 10,6ft | 14,2ft | 17,7ft | 26,6ft | 35,5ft | 53,2ft | 70,9ft | 88,7ft | 106,4ft | 141,8ft | 177,3ft |

LINEAR DISTRIBUTION DIAGRAM

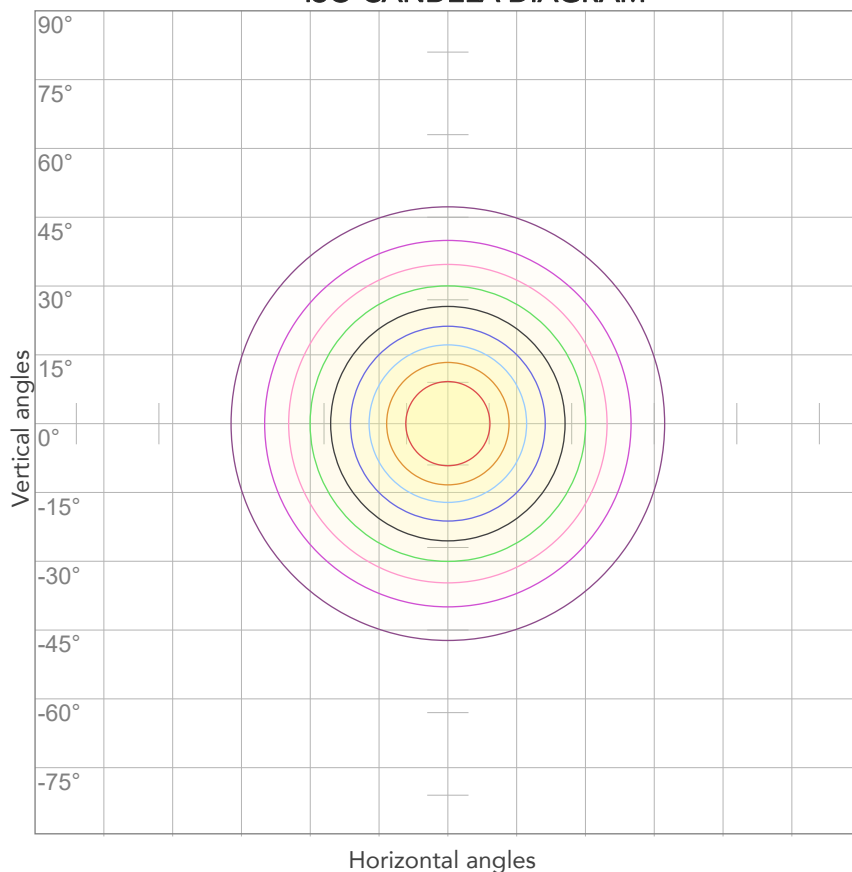


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Effeciency |
|---------------|---------------|-------------|----------|------------|
| 223V | 0,148A | 31,7W | 0,96 | 42lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



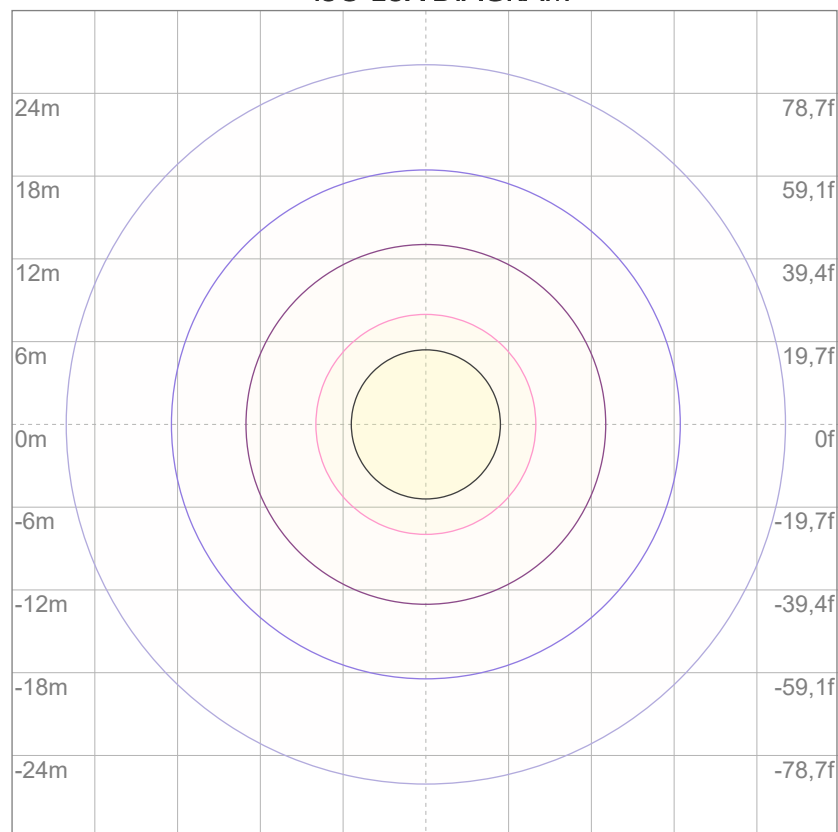
| | |
|-----|--------|
| 10% | 121 cd |
| 20% | 243 cd |
| 30% | 364 cd |
| 40% | 485 cd |
| 50% | 606 cd |
| 60% | 728 cd |
| 70% | 849 cd |
| 80% | 970 cd |

Conditions:

Number of c-planes: 2

Candela at center: 1213 cd

ISO LUX DIAGRAM



| | |
|-----|----------|
| 3% | 0,364 lx |
| 5% | 0,606 lx |
| 10% | 1,21 lx |
| 30% | 3,64 lx |
| 50% | 6,06 lx |

Conditions:

Number of c-planes: 2

Lux at center: 12,1 lx

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



Total lumen output:

2056 lm

Peak candela output:

4188 cd

Light quality:

CRI: 94,1

Color temperature:

3231 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 10°x 60° Filter

Target:

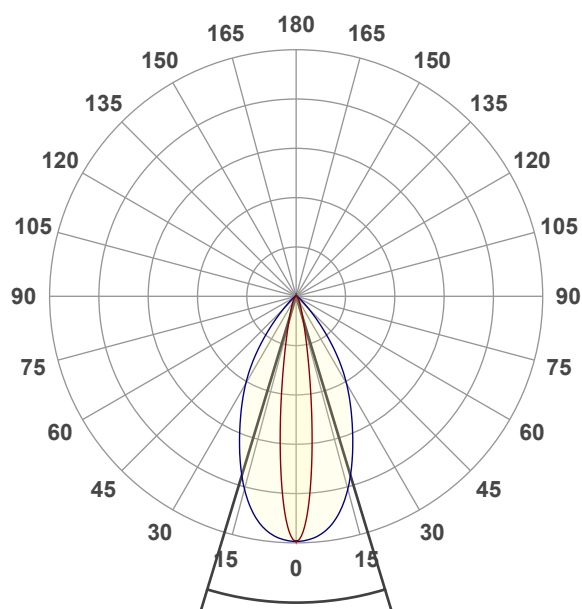
3200K

Operator:

Salvatore Giglio

Date and time:

20/02/2024 10:57:43

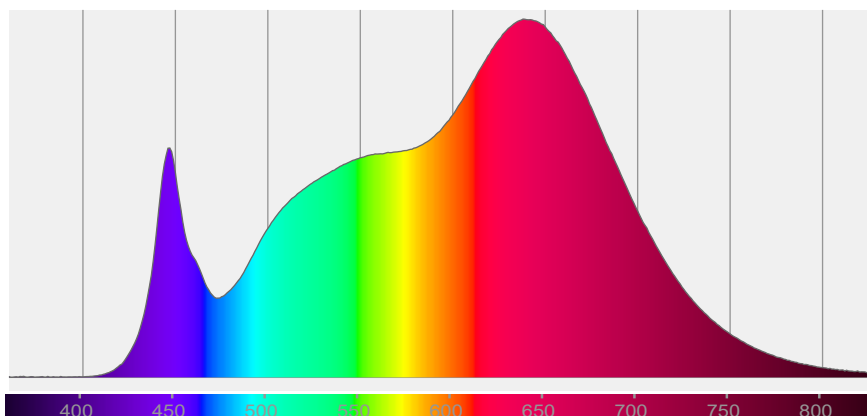


Beam angle 50%: 33,7°

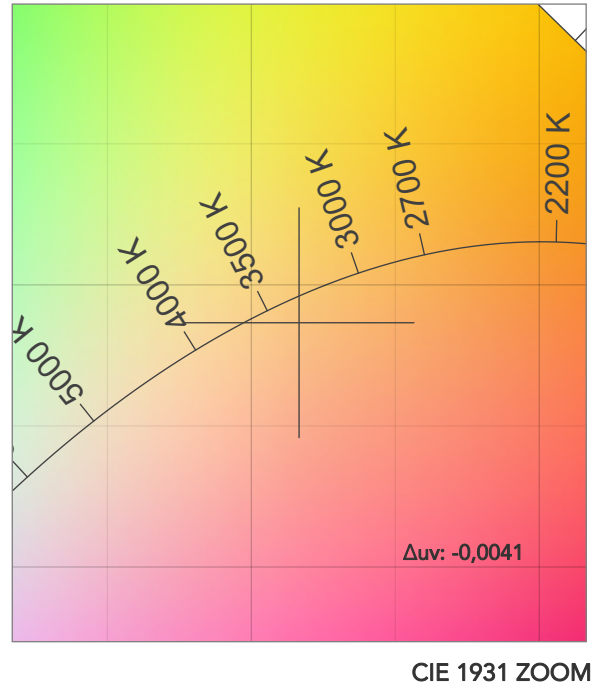
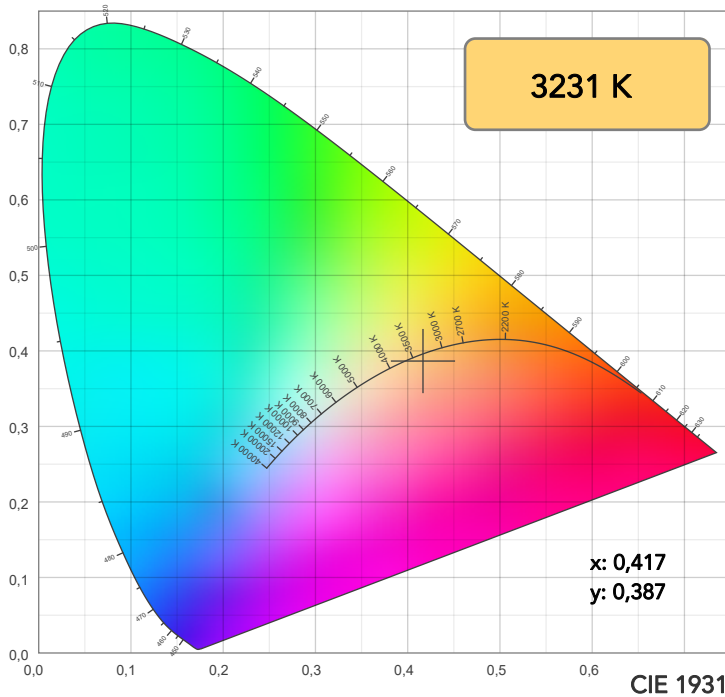
Field angle 10%: 59,8°

Cut off angle 2.5%: 84,3°

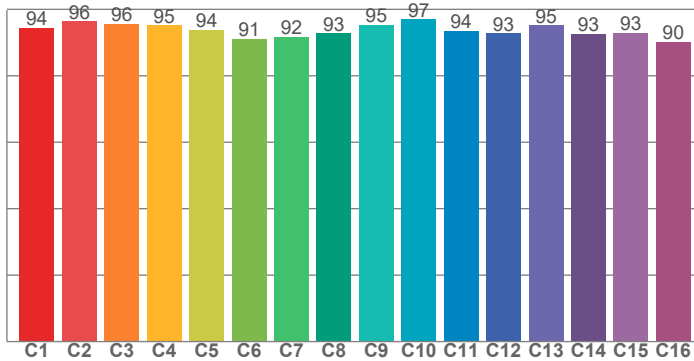
Spectra



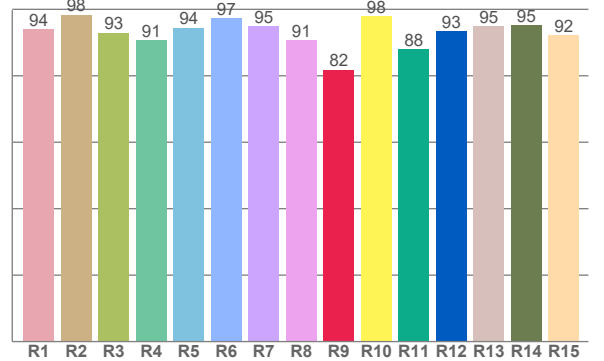
COLOR DETAILS



TM30: 94,1



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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 93,9 | 98,4 | 93,0 | 90,7 | 94,4 | 97,3 | 94,9 | 90,6 | 81,9 | 98,0 | 88,0 | 93,5 | 95,0 | 95,1 | 92,3 |

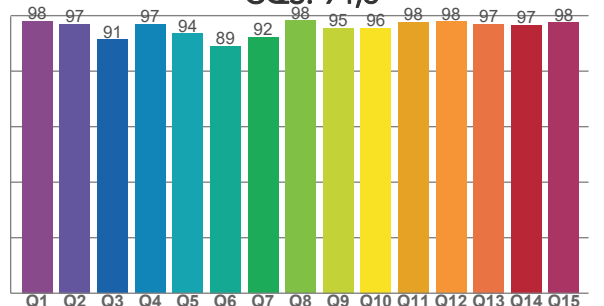
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,5 | 96,4 | 95,6 | 95,2 | 93,7 | 91,1 | 91,8 | 92,8 | 95,3 | 97,0 | 93,5 | 92,7 | 95,2 | 92,7 | 93,0 | 90,2 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 98,2 | 97,0 | 91,4 | 96,9 | 93,5 | 89,1 | 92,2 | 98,3 | 95,5 | 95,6 | 97,7 | 97,9 | 97,0 | 96,7 | 97,5 |

CQS: 94,6



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 |
| 3231 K | 94,1 | 81,9 | 94,1 | 106,2 | 94,6 | 96 | 0,417 | 0,387 | -0,0041 |

TM30 DETAILS

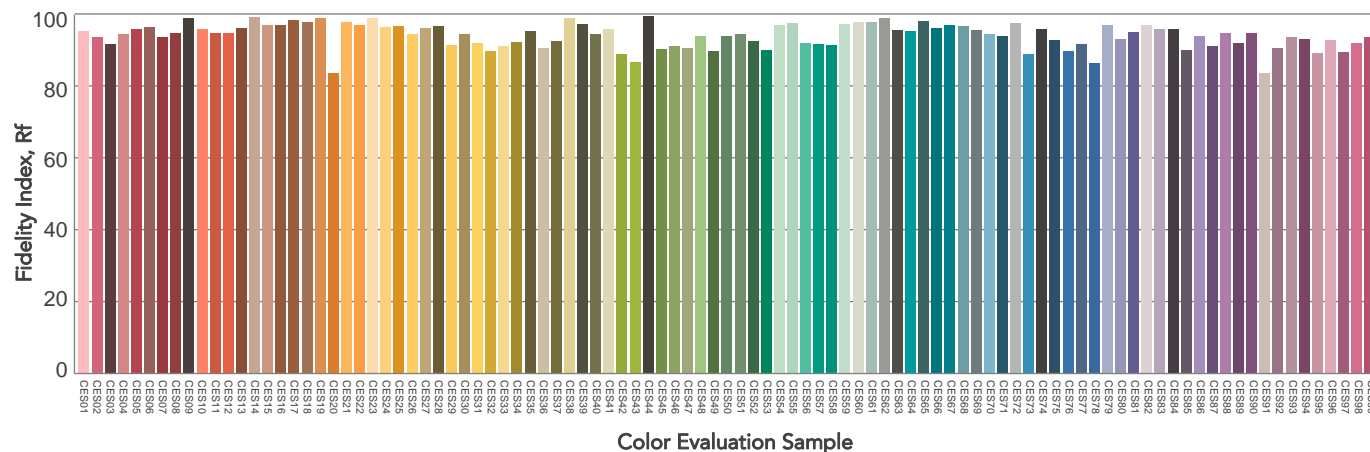
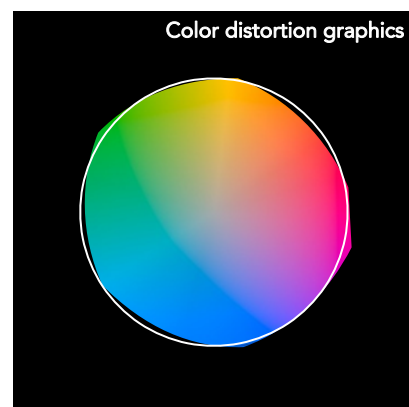
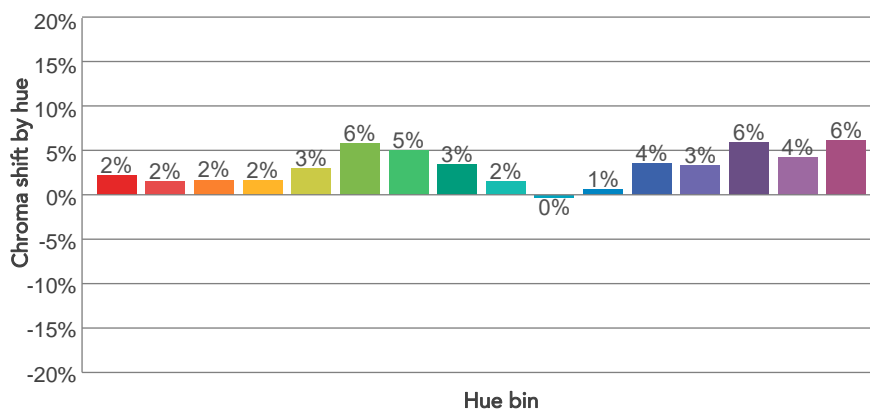
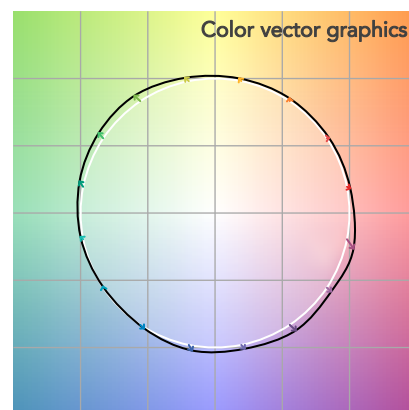
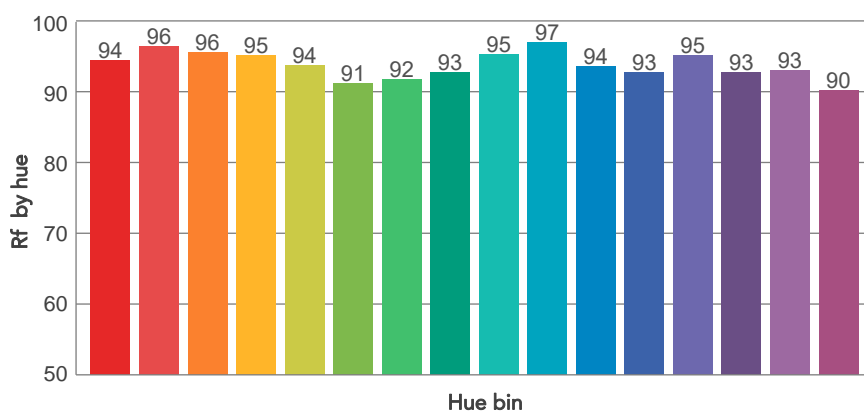
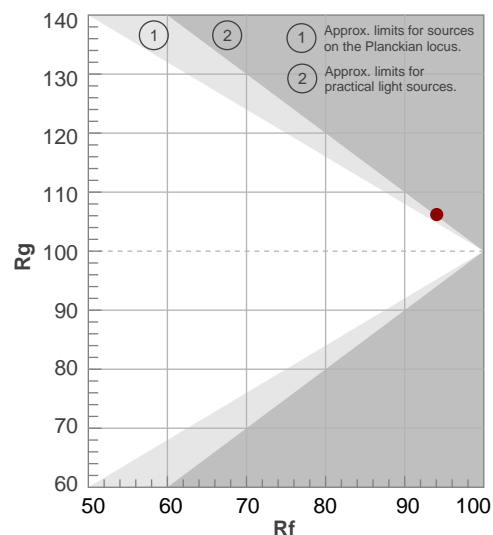
Rf 94,1

Fidelity index Rf

Rg 106,2

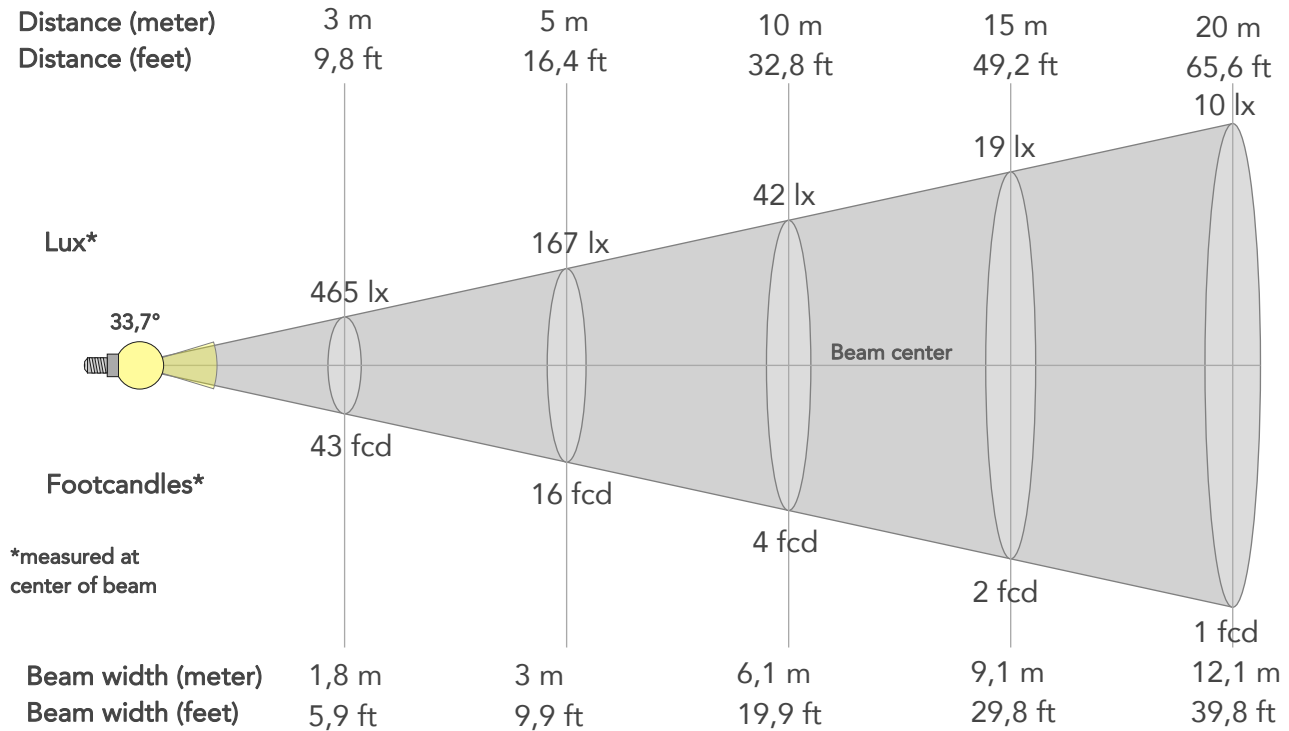
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 94 | 2% | -2% |
| 2 | 96 | 2% | -1% |
| 3 | 96 | 2% | 1% |
| 4 | 95 | 2% | 2% |
| 5 | 94 | 3% | 2% |
| 6 | 91 | 6% | 1% |
| 7 | 92 | 5% | -1% |
| 8 | 93 | 3% | -3% |
| 9 | 95 | 2% | -2% |
| 10 | 97 | 0% | -1% |
| 11 | 94 | 1% | 4% |
| 12 | 93 | 4% | 3% |
| 13 | 95 | 3% | 2% |
| 14 | 93 | 6% | 1% |
| 15 | 93 | 4% | 0% |
| 16 | 90 | 6% | -6% |



BEAM DETAILS

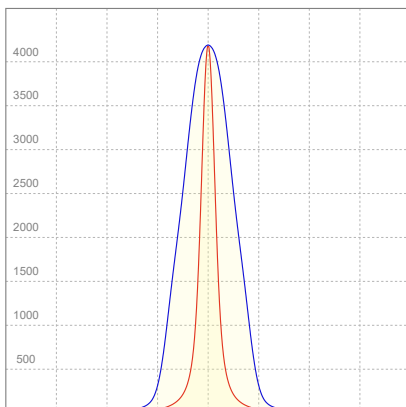
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 33,7° | 59,8° | 84,3° | 97,4% | 92,3% |



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 | 4183lx | 1046lx | 465lx | 261lx | 167lx | 74lx | 42lx | 19lx | 10lx | 7lx | 5lx | 3lx | 2lx |
| Footcand. | 389fcd | 97fcd | 43fcd | 24fcd | 16fcd | 7fcd | 4fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,6m | 1,2m | 1,8m | 2,4m | 3m | 4,5m | 6,1m | 9,1m | 12,1m | 15,2m | 18,2m | 24,3m | 30,3m |
| Beam wid. | 2ft | 4ft | 5,9ft | 7,9ft | 9,9ft | 14,9ft | 19,9ft | 29,8ft | 39,8ft | 49,7ft | 59,7ft | 79,6ft | 99,5ft |

LINEAR DISTRIBUTION DIAGRAM

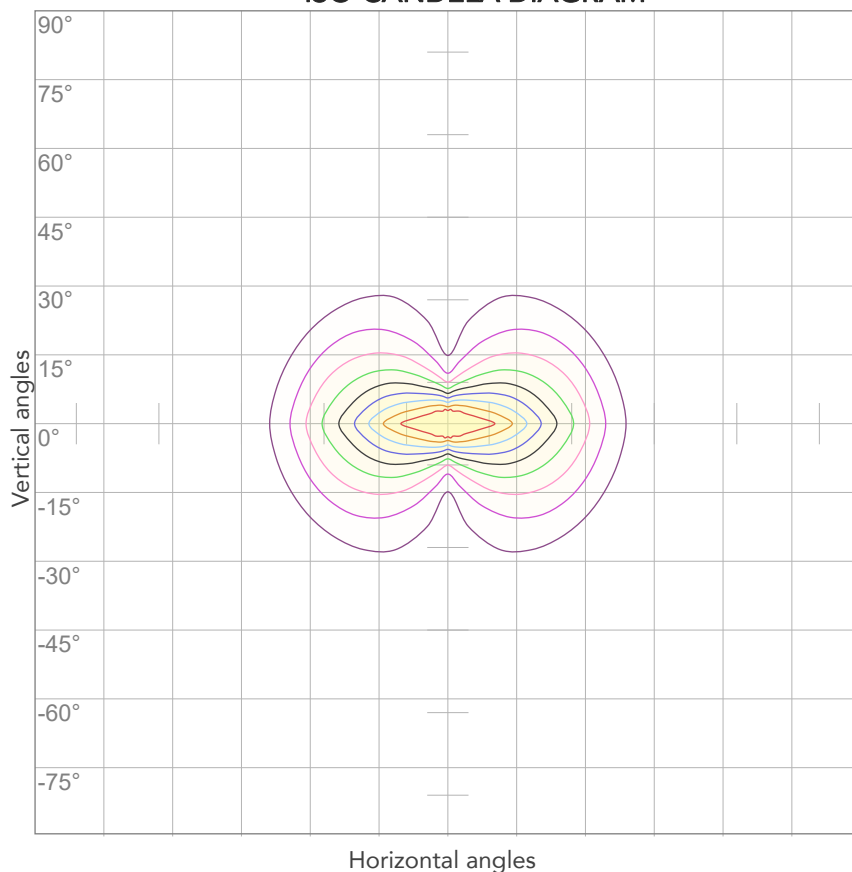


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Efficiency |
|---------------|---------------|-------------|----------|------------|
| 225V | 0,147A | 31,6W | 0,96 | 65lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



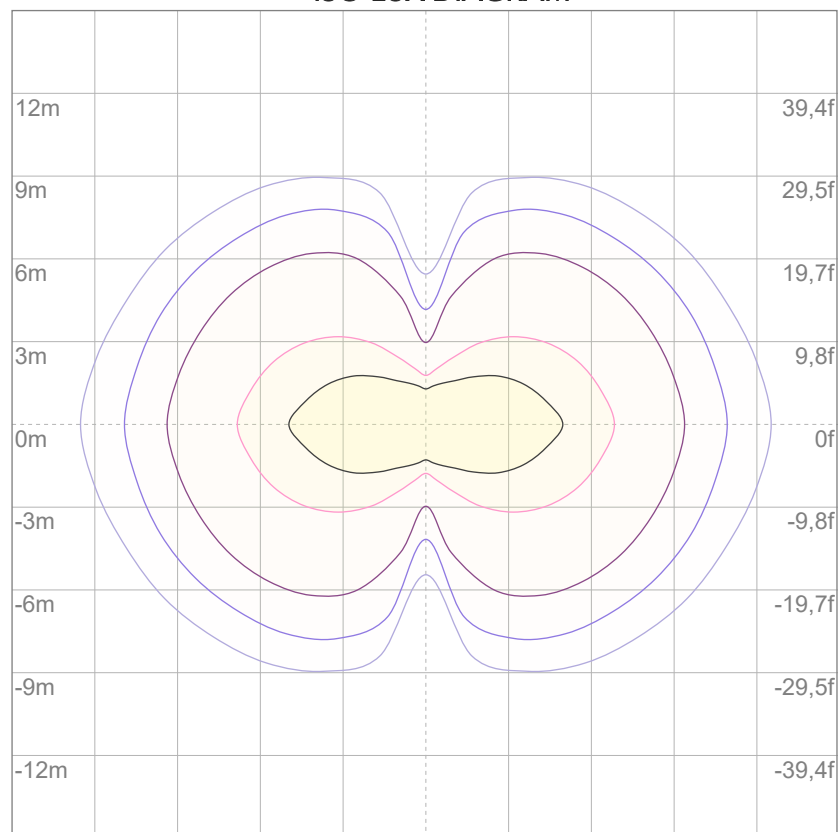
| | |
|-----|---------|
| 10% | 418 cd |
| 20% | 837 cd |
| 30% | 1255 cd |
| 40% | 1673 cd |
| 50% | 2091 cd |
| 60% | 2510 cd |
| 70% | 2928 cd |
| 80% | 3346 cd |

Conditions:

Number of c-planes: 4

Candela at center: 4183 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 1,25 lx |
| 5% | 2,09 lx |
| 10% | 4,18 lx |
| 30% | 12,5 lx |
| 50% | 20,9 lx |

Conditions:

Number of c-planes: 4

Lux at center: 41,8 lx

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



Total lumen output:

1259 lm

Peak candela output:

2076 cd

Light quality:

CRI: 94,1

Color temperature:

3241 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 30°x 60° Filter

Target:

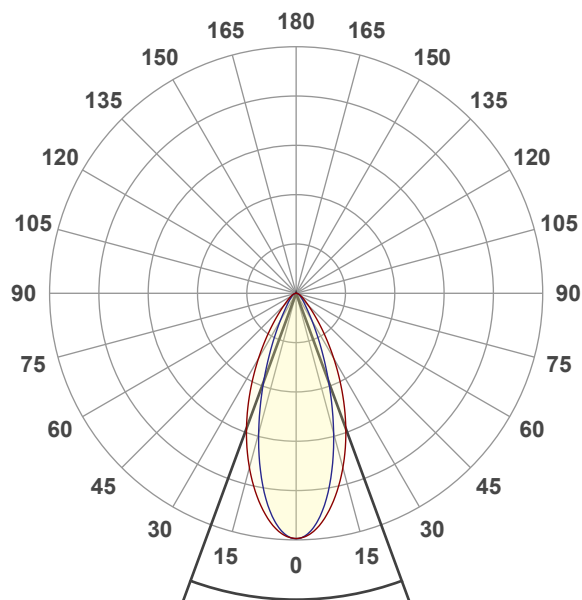
3200K

Operator:

Salvatore Giglio

Date and time:

20/02/2024 11:53:26

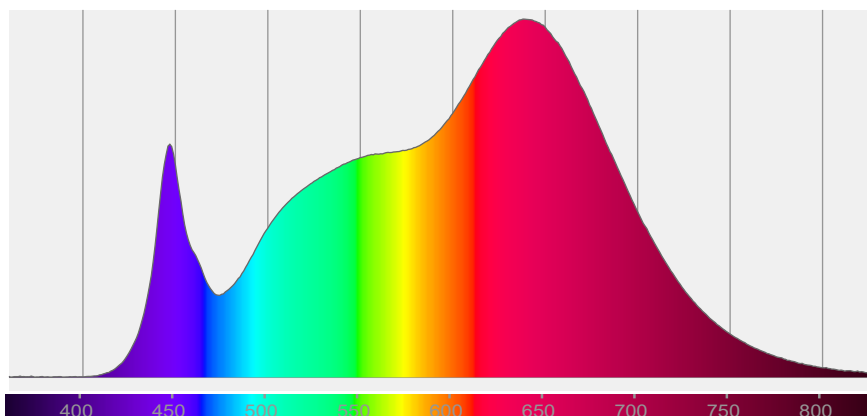


Beam angle 50%: 40,3°

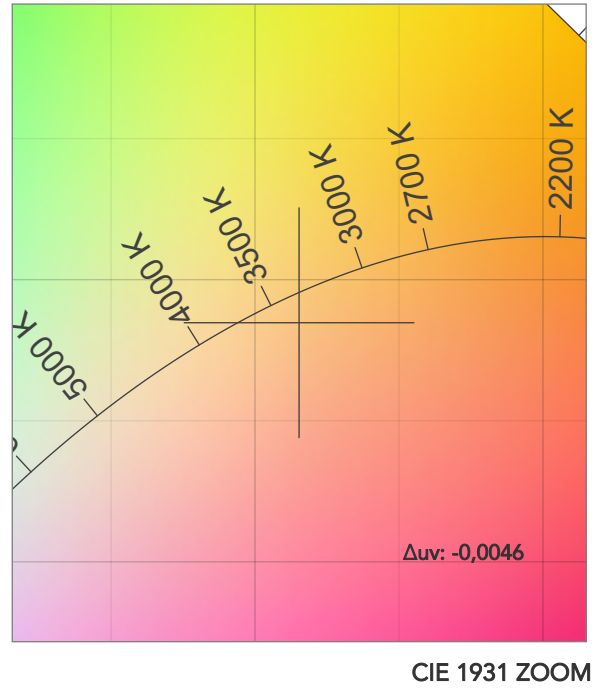
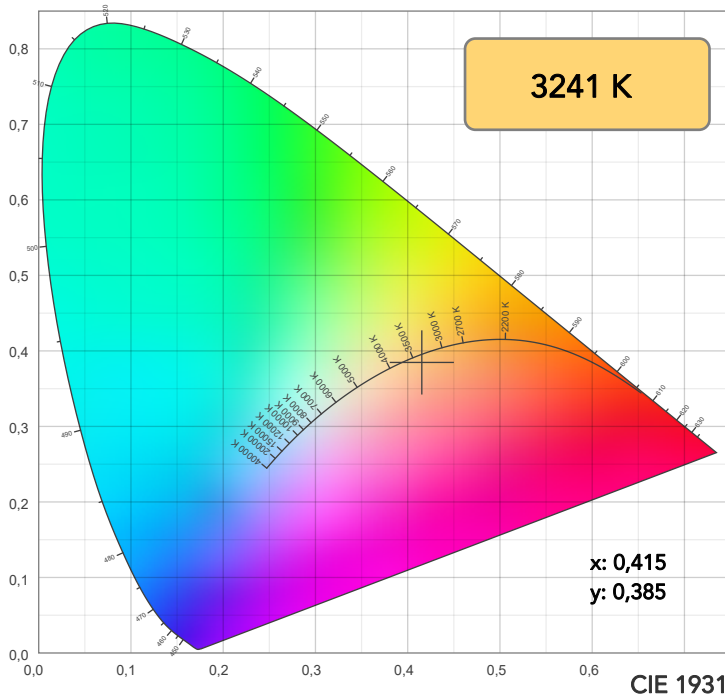
Field angle 10%: 73,9°

Cut off angle 2.5%: 111,6°

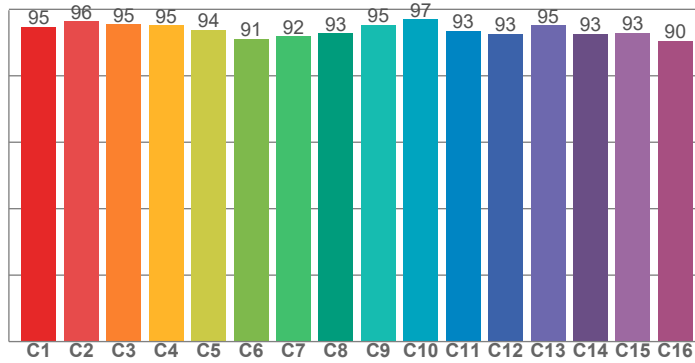
Spectra



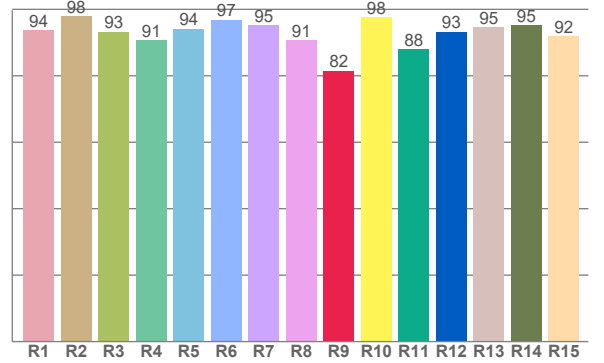
COLOR DETAILS



TM30: 94,0



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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 93,6 | 98,0 | 93,3 | 90,7 | 94,1 | 96,8 | 95,2 | 90,7 | 81,5 | 97,5 | 87,9 | 93,3 | 94,6 | 95,3 | 91,9 |

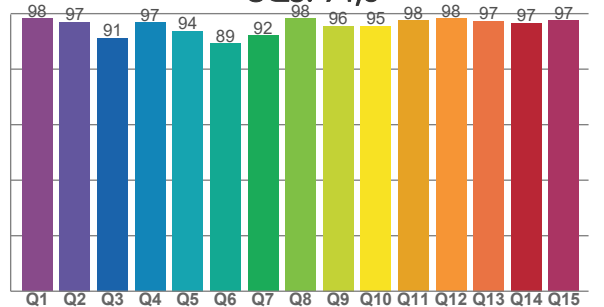
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,8 | 96,3 | 95,4 | 95,2 | 93,8 | 91,1 | 91,8 | 92,8 | 95,3 | 97,0 | 93,4 | 92,7 | 95,2 | 92,6 | 92,9 | 90,5 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 98,2 | 97,1 | 91,2 | 96,7 | 93,8 | 89,2 | 92,1 | 98,2 | 95,5 | 95,5 | 97,5 | 98,2 | 97,4 | 96,5 | 97,5 |

CQS: 94,6



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 |
| 3241 K | 94,1 | 81,5 | 94,0 | 106,2 | 94,6 | 96 | 0,415 | 0,385 | -0,0046 |

TM30 DETAILS

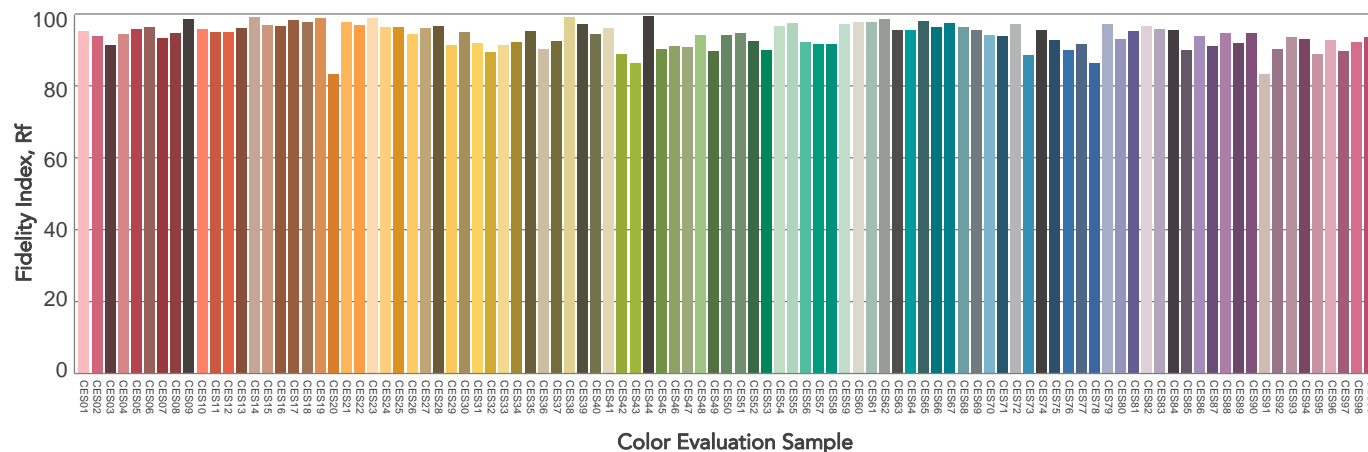
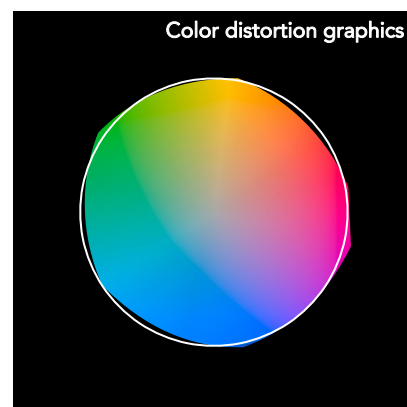
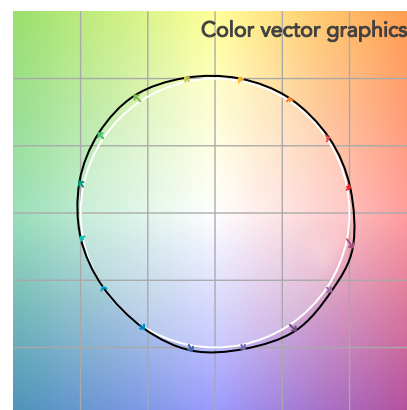
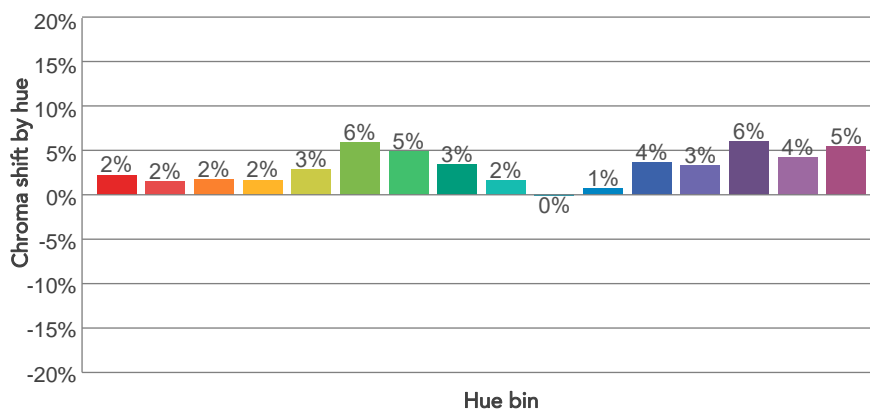
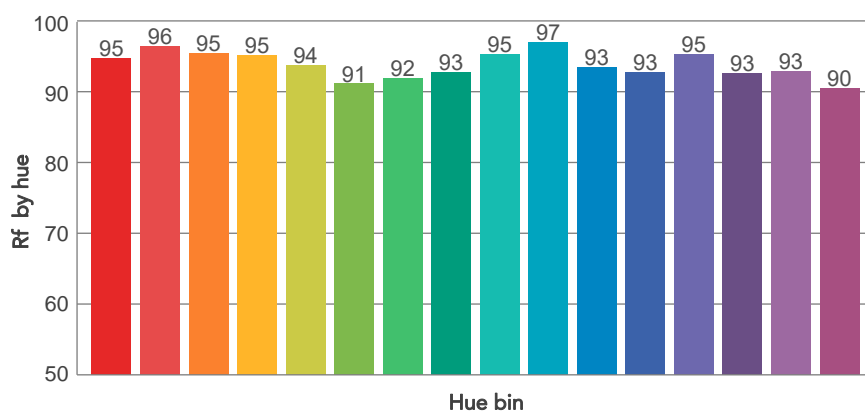
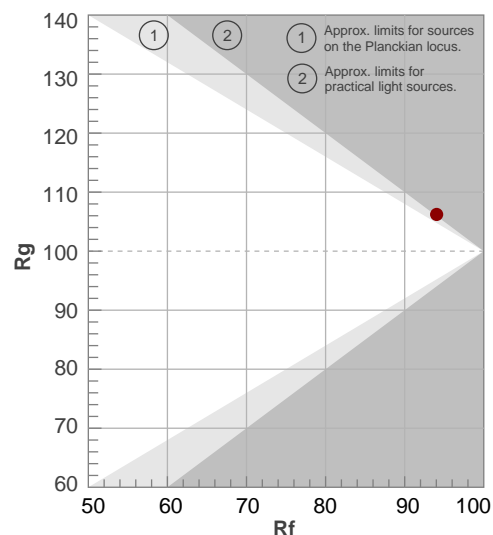
Rf 94,0

Fidelity index R_f

Rg 106,2

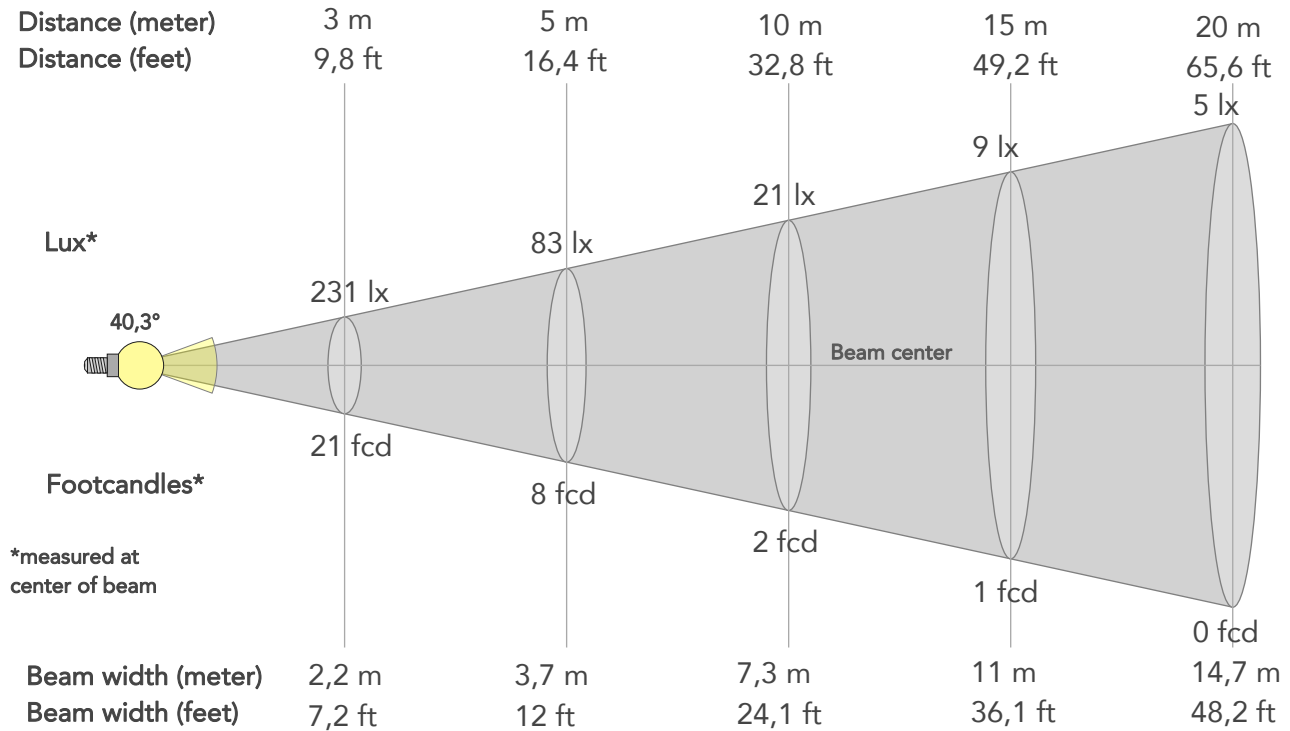
Gammut index

| | | Graphic shifts (%) | |
|---------|-------|--------------------|-----|
| Hue Bin | R_f | Chroma | Hue |
| 1 | 95 | 2% | -1% |
| 2 | 96 | 2% | -1% |
| 3 | 95 | 2% | 1% |
| 4 | 95 | 2% | 2% |
| 5 | 94 | 3% | 2% |
| 6 | 91 | 6% | 1% |
| 7 | 92 | 5% | -1% |
| 8 | 93 | 3% | -3% |
| 9 | 95 | 2% | -2% |
| 10 | 97 | 0% | -1% |
| 11 | 93 | 1% | 4% |
| 12 | 93 | 4% | 3% |
| 13 | 95 | 3% | 2% |
| 14 | 93 | 6% | 1% |
| 15 | 93 | 4% | 0% |
| 16 | 90 | 5% | -5% |



BEAM DETAILS

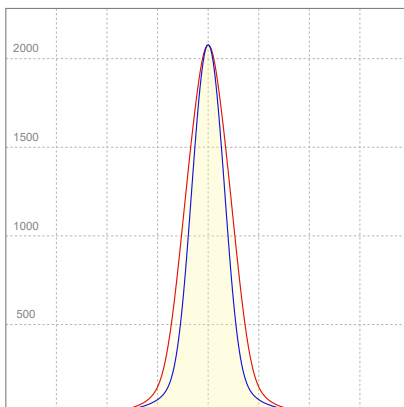
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 40,3° | 73,9° | 111,6° | 95,5% | 88,4% |



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 | 2075lx | 519lx | 231lx | 130lx | 83lx | 37lx | 21lx | 9lx | 5lx | 3lx | 2lx | 1lx | 1lx |
| Footcand. | 193fcd | 48fcd | 21fcd | 12fcd | 8fcd | 3fcd | 2fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,7m | 1,5m | 2,2m | 2,9m | 3,7m | 5,5m | 7,3m | 11m | 14,7m | 18,4m | 22m | 29,4m | 36,7m |
| Beam wid. | 2,4ft | 4,8ft | 7,2ft | 9,6ft | 12ft | 18,1ft | 24,1ft | 36,1ft | 48,2ft | 60,2ft | 72,3ft | 96,4ft | 120,5ft |

LINEAR DISTRIBUTION DIAGRAM

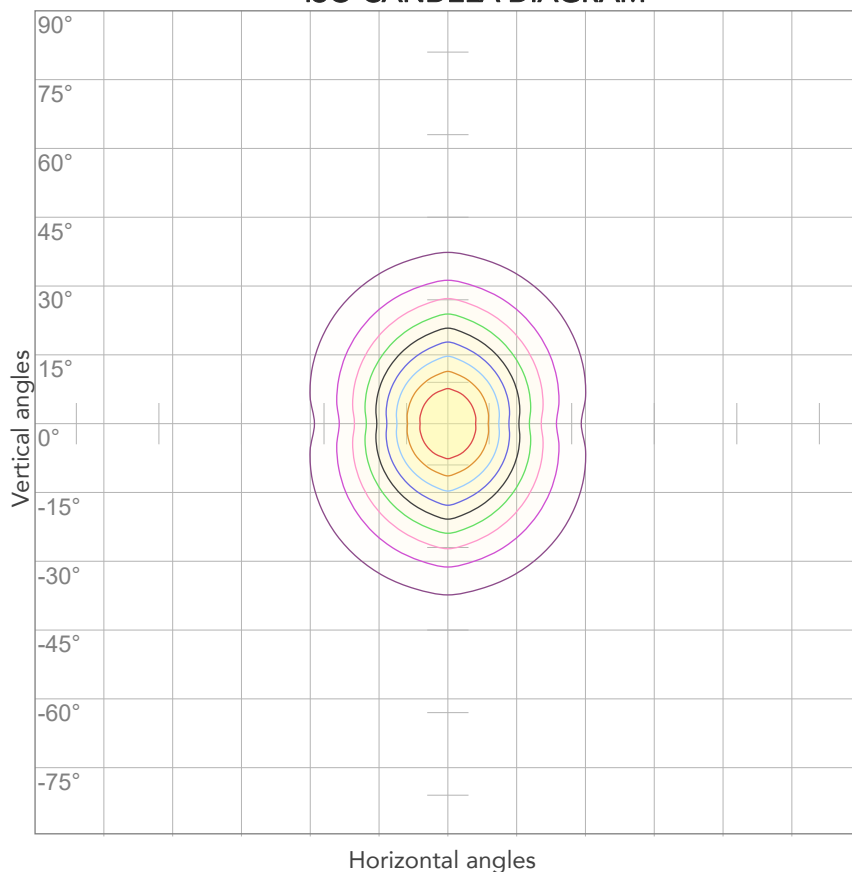


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Efficiency |
|---------------|---------------|-------------|----------|------------|
| 226V | 0,145A | 31,4W | 0,96 | 40lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



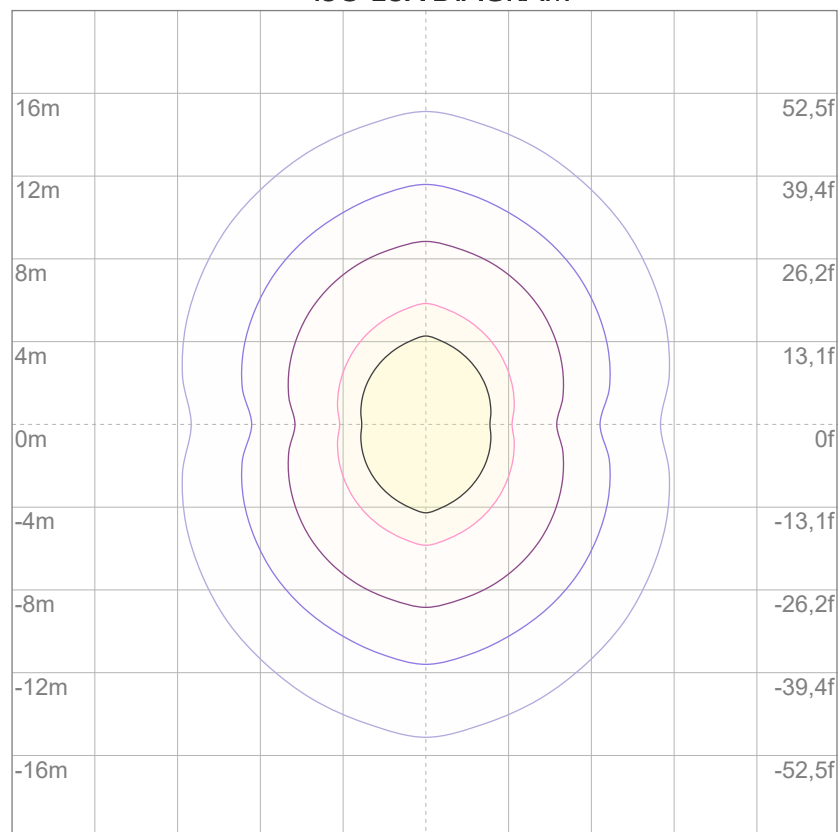
| | |
|-----|---------|
| 10% | 207 cd |
| 20% | 415 cd |
| 30% | 622 cd |
| 40% | 830 cd |
| 50% | 1037 cd |
| 60% | 1245 cd |
| 70% | 1452 cd |
| 80% | 1660 cd |

Conditions:

Number of c-planes: 4

Candela at center: 2075 cd

ISO LUX DIAGRAM



| | |
|-----|----------|
| 3% | 0,622 lx |
| 5% | 1,04 lx |
| 10% | 2,07 lx |
| 30% | 6,22 lx |
| 50% | 10,4 lx |

Conditions:

Number of c-planes: 4

Lux at center: 20,7 lx

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



Total lumen output:

1638 lm

Peak candela output:

32502 cd

Light quality:

CRI: 93,7

Color temperature:

4041 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10°

Target:

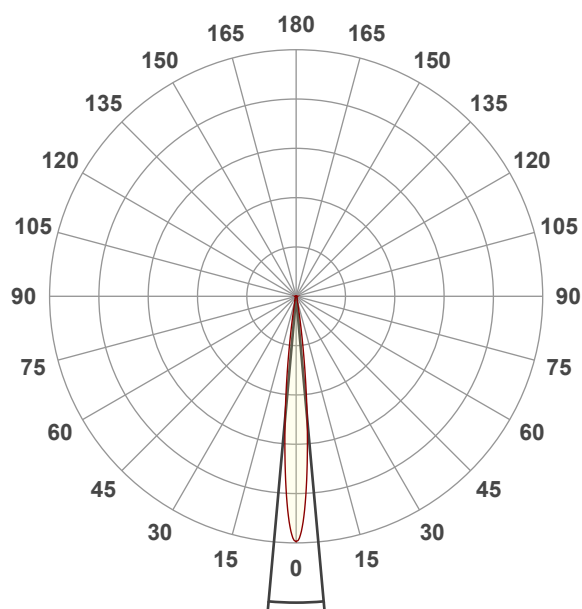
4000K

Operator:

Salvatore Giglio

Date and time:

19/02/2024 16:36:39

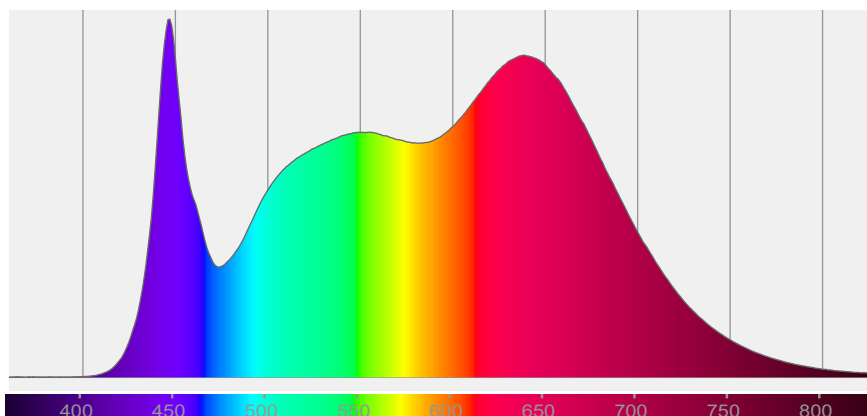


Beam angle 50%: 10,3°

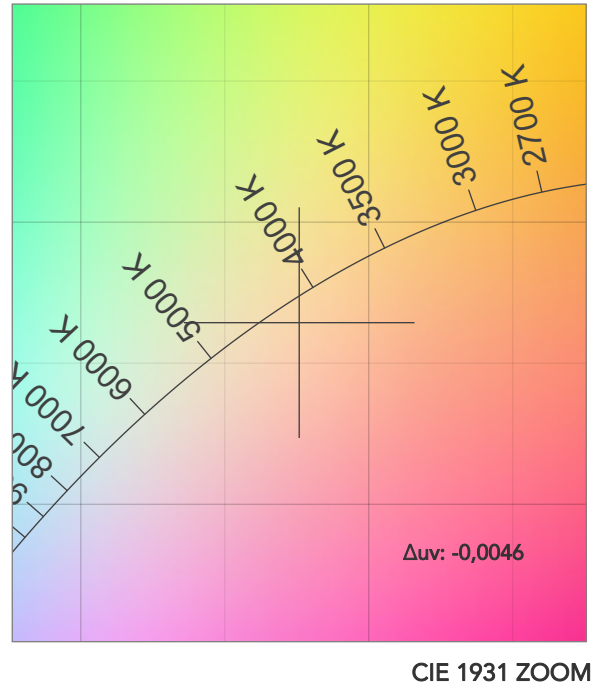
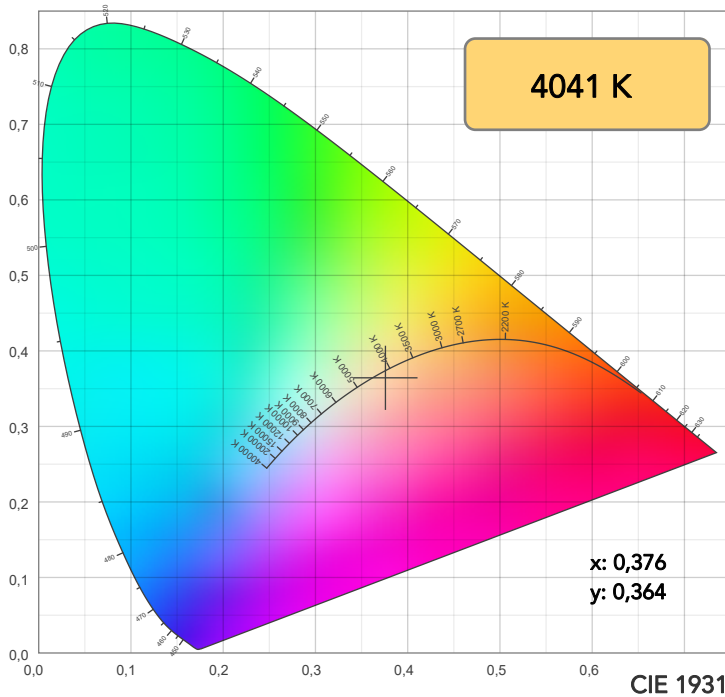
Field angle 10%: 18,6°

Cut off angle 2.5%: 27,5°

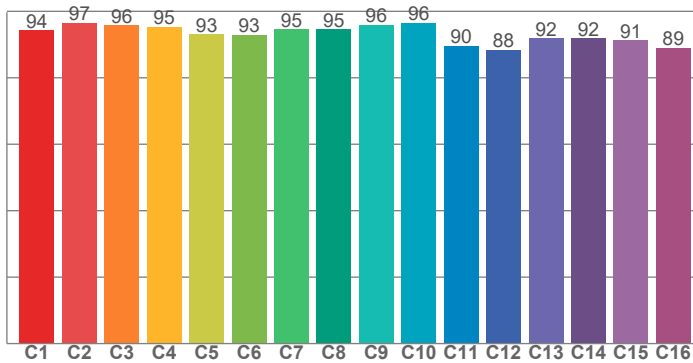
Spectra



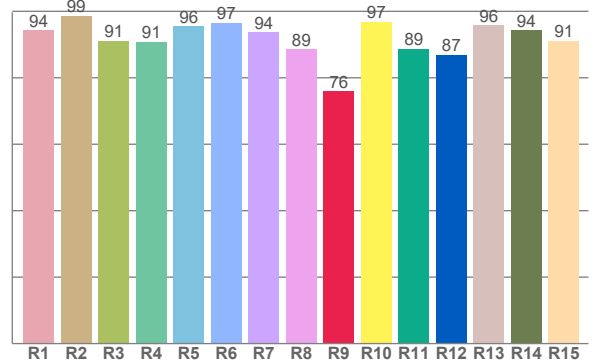
COLOR DETAILS



TM30: 93,4



CRI: 93,7 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,3 | 98,7 | 91,2 | 90,8 | 95,6 | 96,5 | 93,7 | 88,6 | 76,0 | 96,9 | 88,8 | 86,9 | 95,8 | 94,3 | 91,1 |

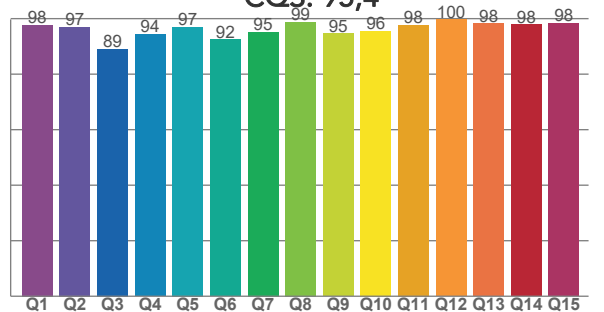
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,3 | 96,5 | 95,7 | 95,3 | 93,1 | 92,9 | 94,6 | 94,5 | 95,9 | 96,5 | 89,6 | 88,3 | 91,9 | 91,9 | 91,2 | 88,9 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 97,7 | 97,0 | 89,1 | 94,4 | 96,9 | 92,4 | 95,1 | 98,9 | 94,7 | 95,5 | 97,7 | 99,6 | 98,2 | 97,8 | 98,3 |

CQS: 95,4



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 |
| 4041 K | 93,7 | 76,0 | 93,4 | 105,7 | 95,4 | 97 | 0,376 | 0,364 | -0,0046 |

TM30 DETAILS

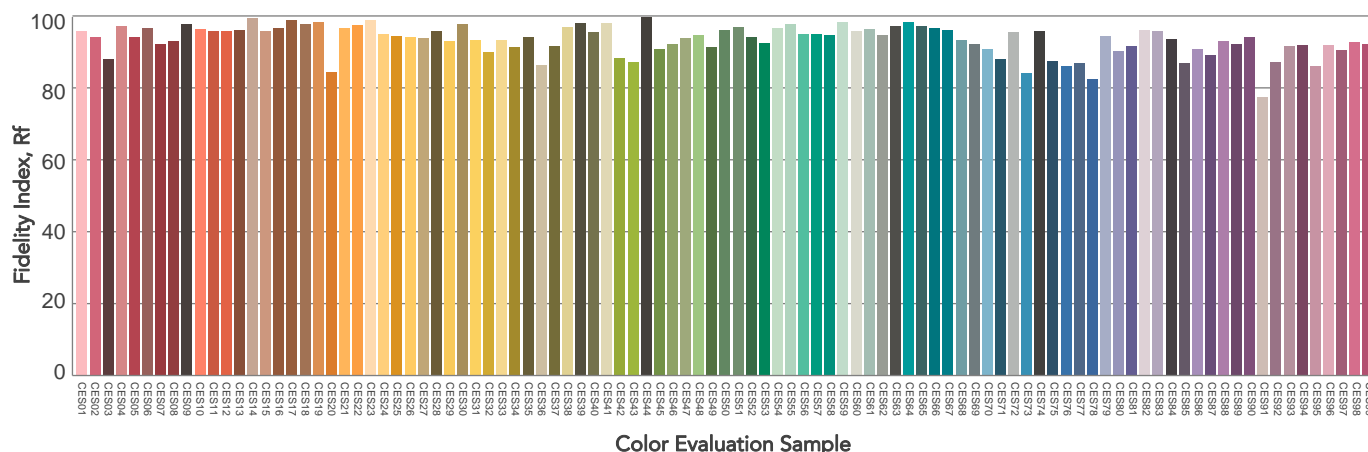
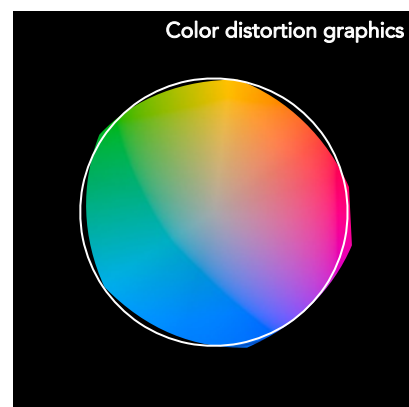
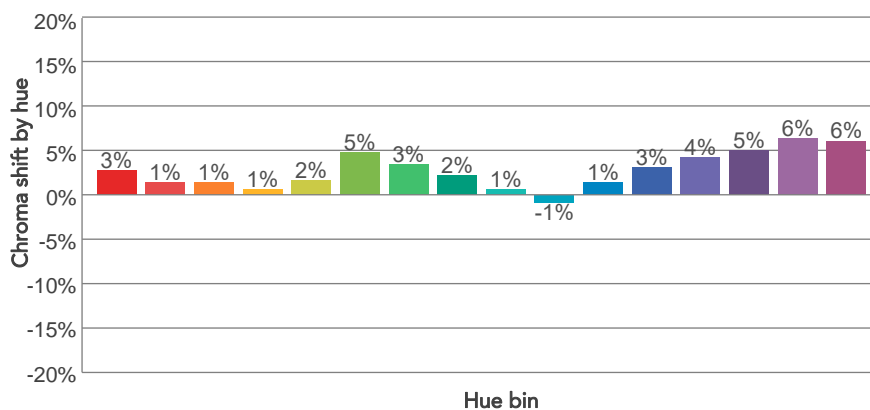
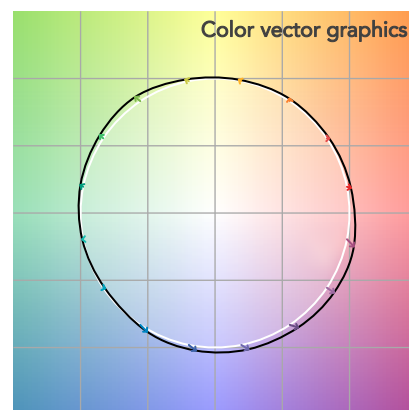
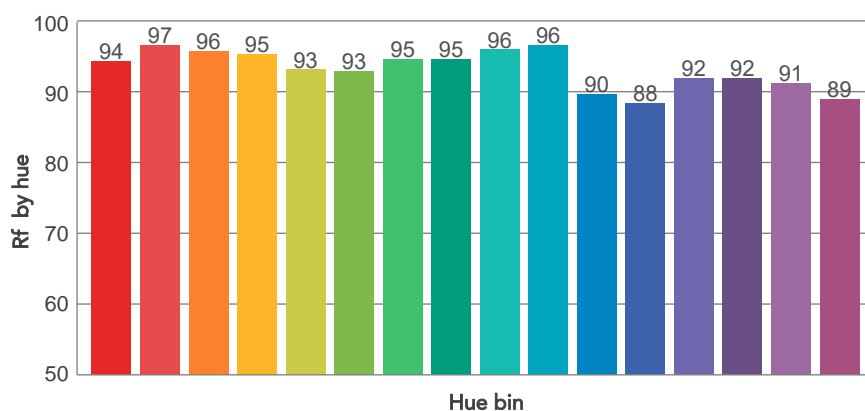
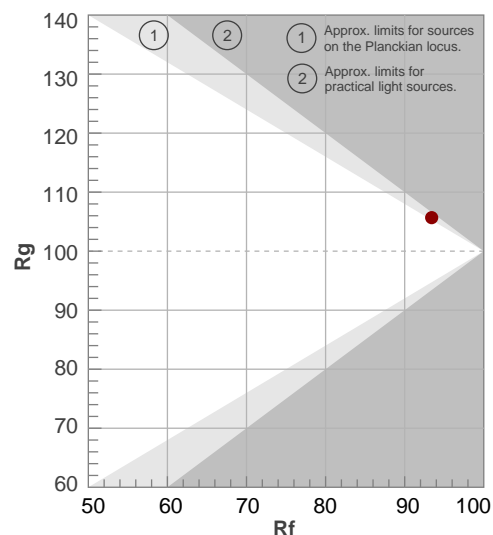
Rf 93,4

Fidelity index Rf

Rg 105,7

Gammut index

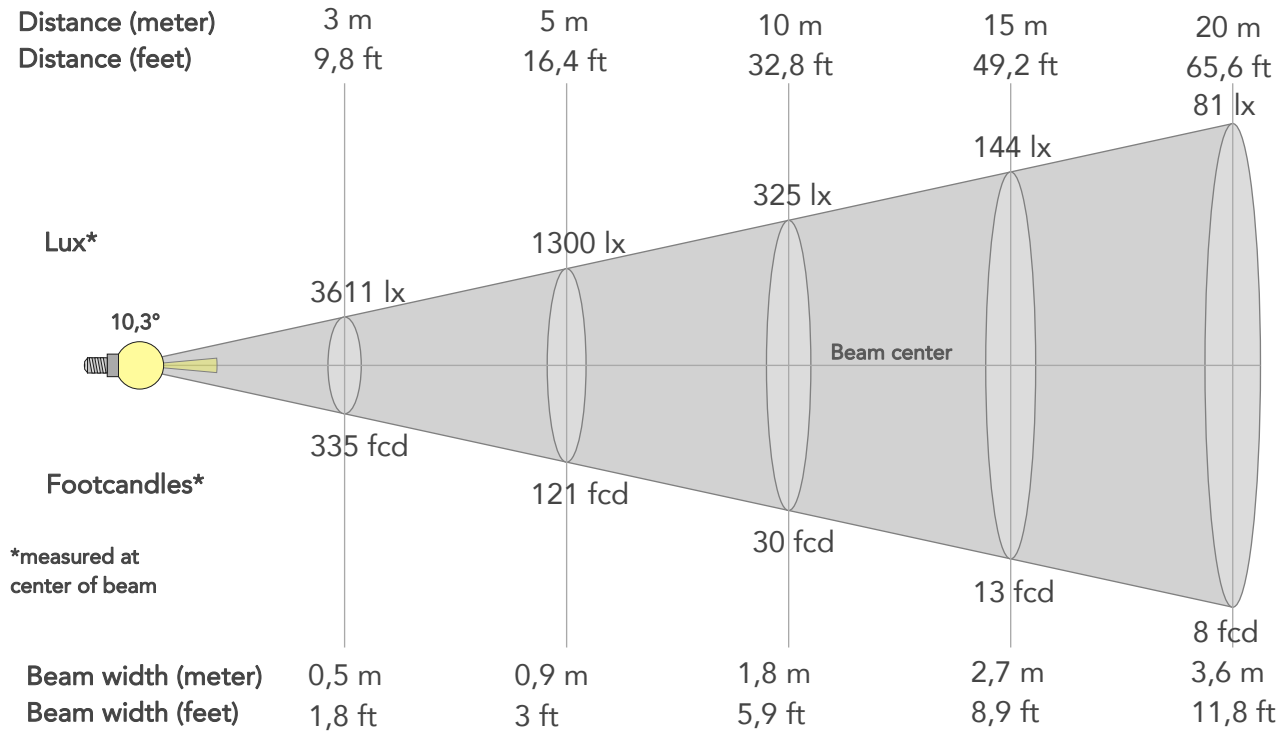
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 94 | 3% | -1% |
| 2 | 97 | 1% | -1% |
| 3 | 96 | 1% | 1% |
| 4 | 95 | 1% | 2% |
| 5 | 93 | 2% | 2% |
| 6 | 93 | 5% | 1% |
| 7 | 95 | 3% | -1% |
| 8 | 95 | 2% | -1% |
| 9 | 96 | 1% | 0% |
| 10 | 96 | -1% | 1% |
| 11 | 90 | 1% | 7% |
| 12 | 88 | 3% | 6% |
| 13 | 92 | 4% | 5% |
| 14 | 92 | 5% | 4% |
| 15 | 91 | 6% | 0% |
| 16 | 89 | 6% | -4% |



BEAM DETAILS



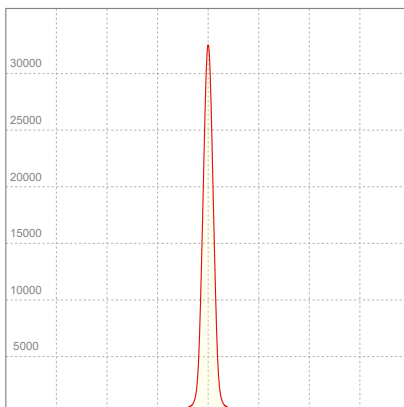
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 10,3° | 18,6° | 27,5° | 97,3% | 94,2% |



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 | 32502lx | 8125lx | 3611lx | 2031lx | 1300lx | 578lx | 325lx | 144lx | 81lx | 52lx | 36lx | 20lx | 13lx |
| Footcand. | 3019fcd | 755fcd | 335fcd | 189fcd | 121fcd | 54fcd | 30fcd | 13fcd | 8fcd | 5fcd | 3fcd | 2fcd | 1fcd |
| Beam wid. | 0,2m | 0,4m | 0,5m | 0,7m | 0,9m | 1,4m | 1,8m | 2,7m | 3,6m | 4,5m | 5,4m | 7,2m | 9m |
| Beam wid. | 0,6ft | 1,2ft | 1,8ft | 2,4ft | 3ft | 4,4ft | 5,9ft | 8,9ft | 11,8ft | 14,8ft | 17,8ft | 23,7ft | 29,6ft |

LINEAR DISTRIBUTION DIAGRAM

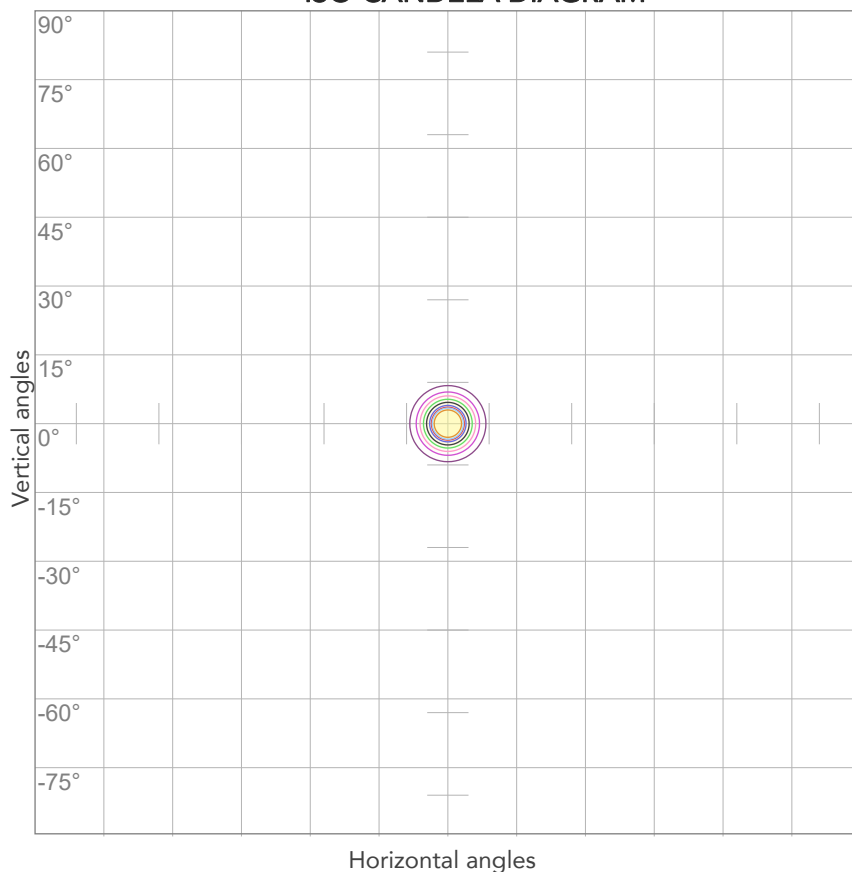


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Efficiency |
|---------------|---------------|-------------|----------|------------|
| 226V | 0,146A | 31,5W | 0,96 | 52lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



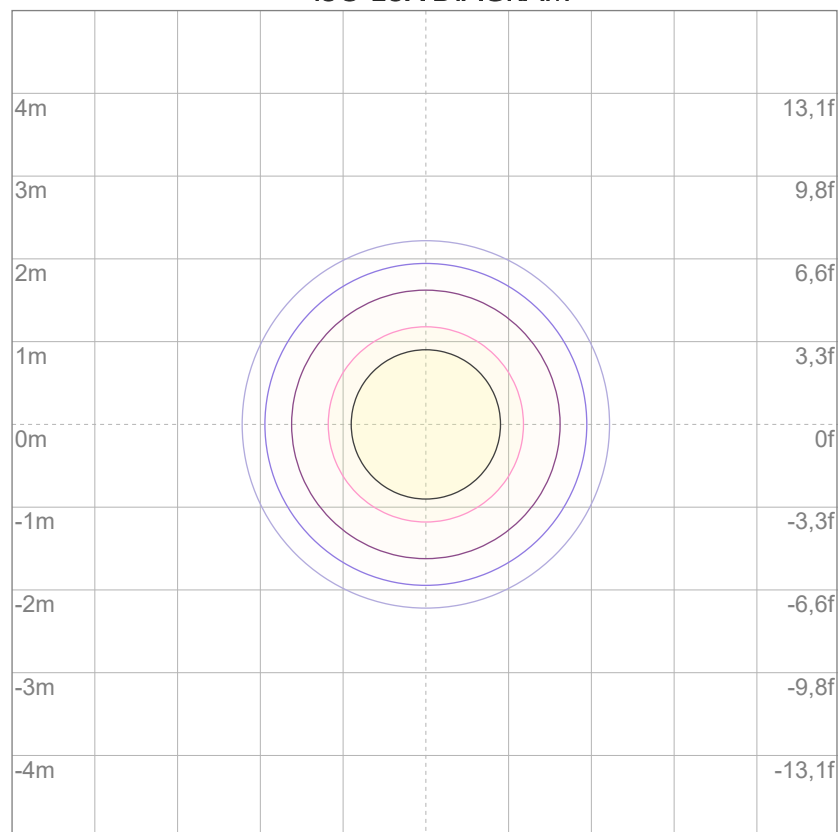
| | |
|-----|----------|
| 10% | 3250 cd |
| 20% | 6500 cd |
| 30% | 9750 cd |
| 40% | 13001 cd |
| 50% | 16251 cd |
| 60% | 19501 cd |
| 70% | 22751 cd |
| 80% | 26001 cd |

Conditions:

Number of c-planes: 2

Candela at center: 32502 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 9,75 lx |
| 5% | 16,3 lx |
| 10% | 32,5 lx |
| 30% | 97,5 lx |
| 50% | 163 lx |

Conditions:

Number of c-planes: 2

Lux at center: 325 lx

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



Total lumen output:

1474 lm

Peak candela output:

6040 cd

Light quality:

CRI: 93,6

Color temperature:

4041 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 20° Filter

Target:

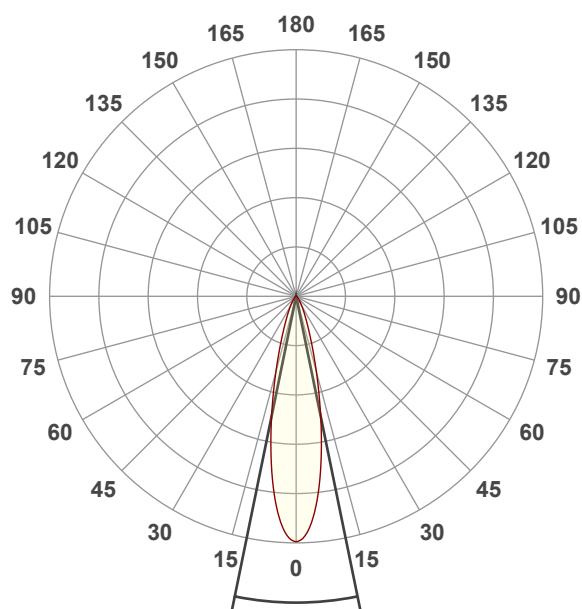
4000K

Operator:

Salvatore Giglio

Date and time:

19/02/2024 17:23:10

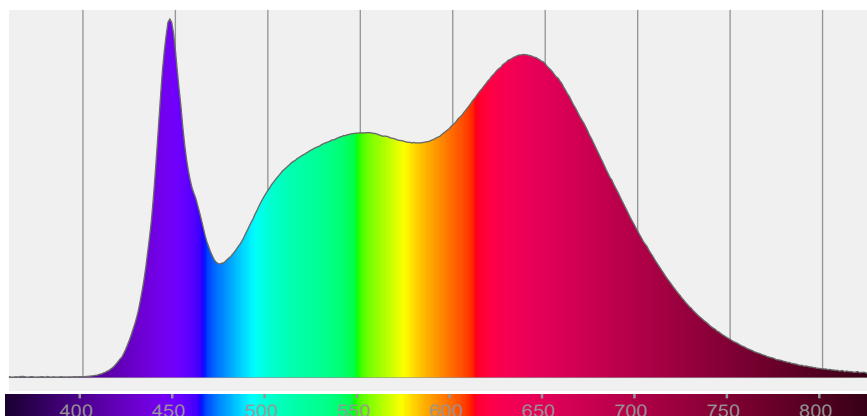


Beam angle 50%: 23,1°

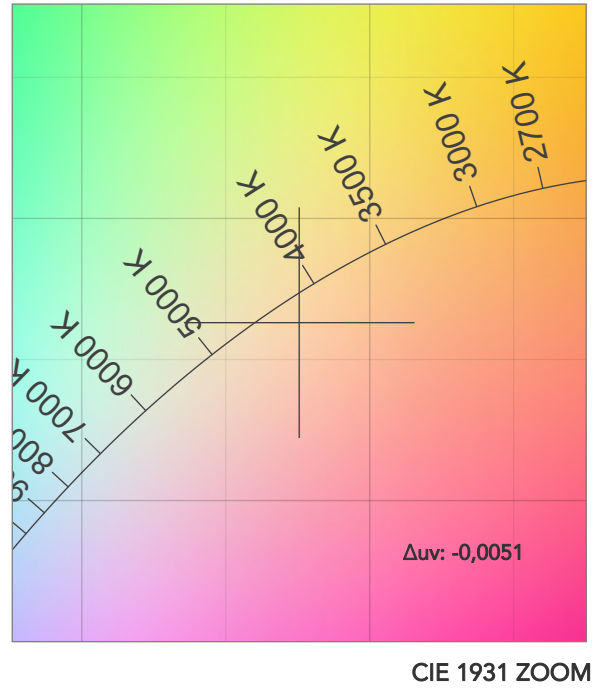
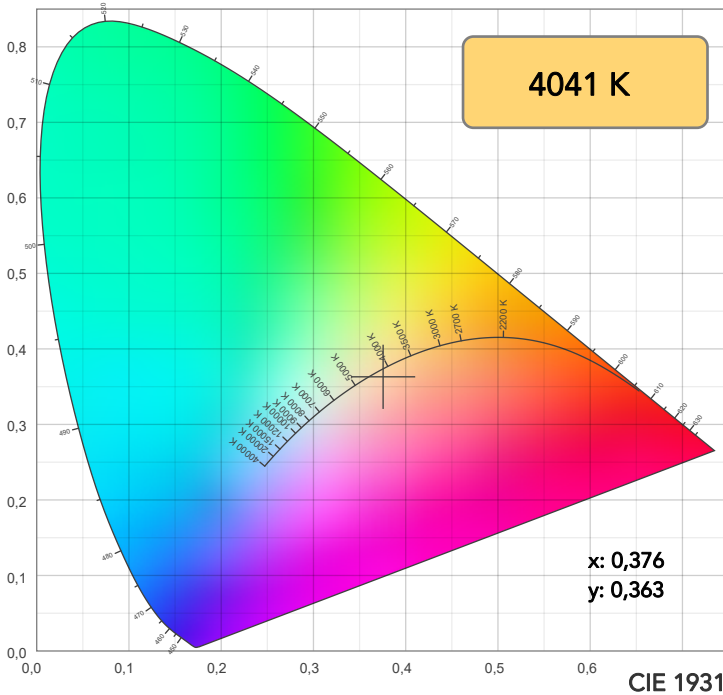
Field angle 10%: 46,8°

Cut off angle 2.5%: 72,5°

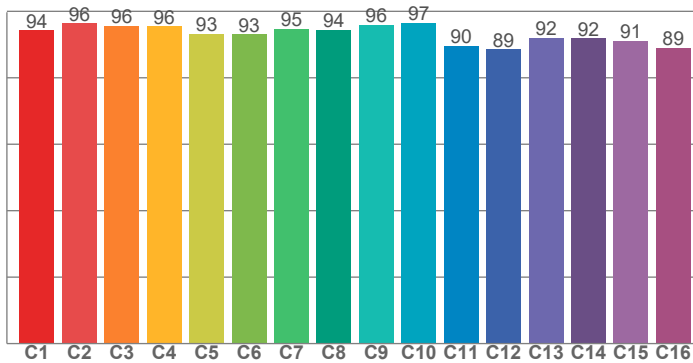
Spectra



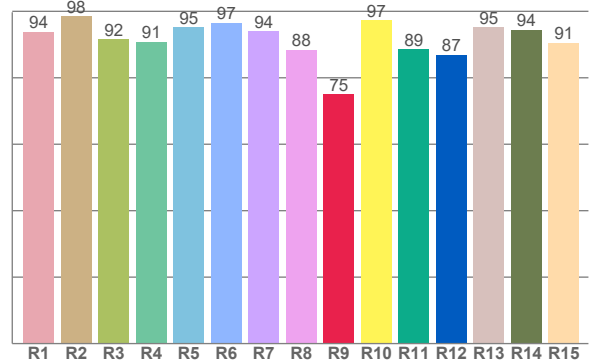
COLOR DETAILS



TM30: 93,4



CRI: 93,6 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 93,8 | 98,5 | 91,5 | 90,8 | 95,2 | 96,5 | 94,0 | 88,4 | 75,1 | 97,3 | 88,6 | 86,9 | 95,2 | 94,5 | 90,6 |

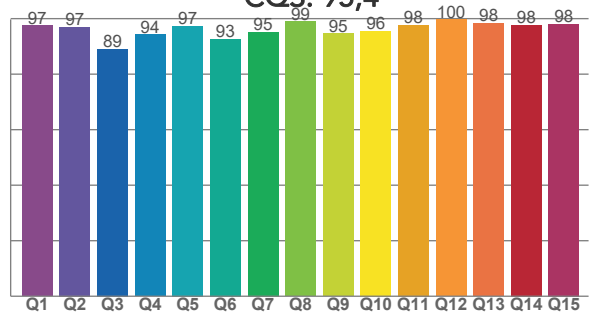
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,3 | 96,4 | 95,7 | 95,5 | 93,1 | 93,0 | 94,7 | 94,4 | 95,9 | 96,5 | 89,6 | 88,5 | 92,0 | 91,9 | 91,1 | 88,9 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 97,4 | 97,0 | 89,0 | 94,2 | 97,3 | 92,7 | 95,2 | 98,9 | 94,7 | 95,6 | 97,7 | 99,7 | 98,3 | 97,7 | 98,1 |

CQS: 95,4



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 |
| 4041 K | 93,6 | 75,1 | 93,4 | 105,7 | 95,4 | 97 | 0,376 | 0,363 | -0,0051 |

TM30 DETAILS

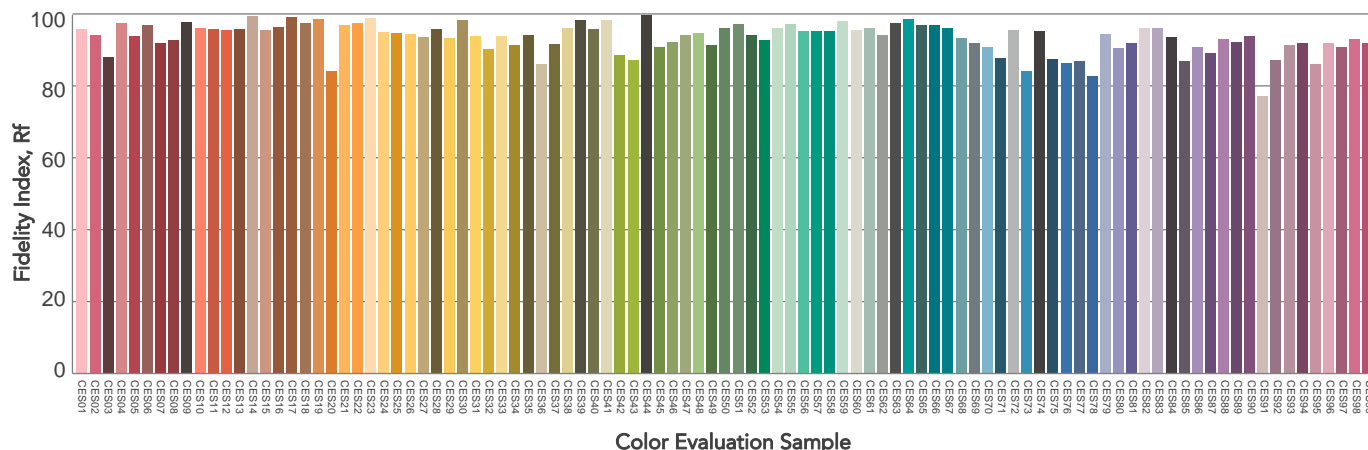
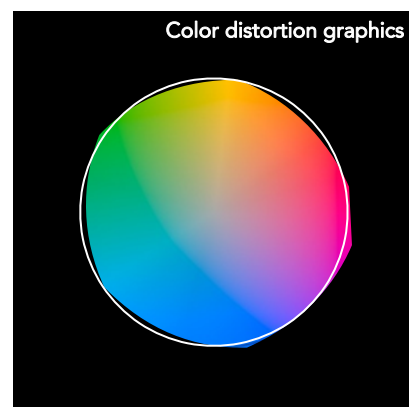
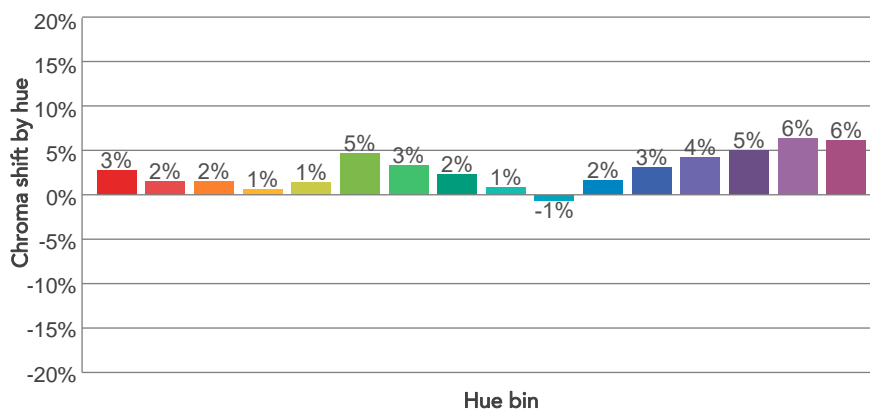
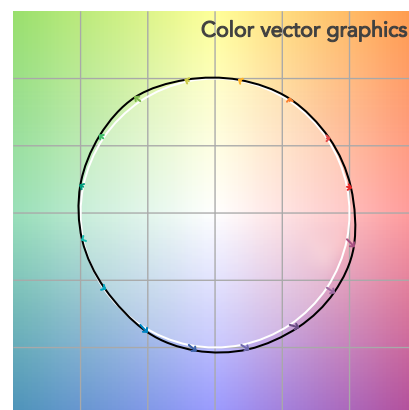
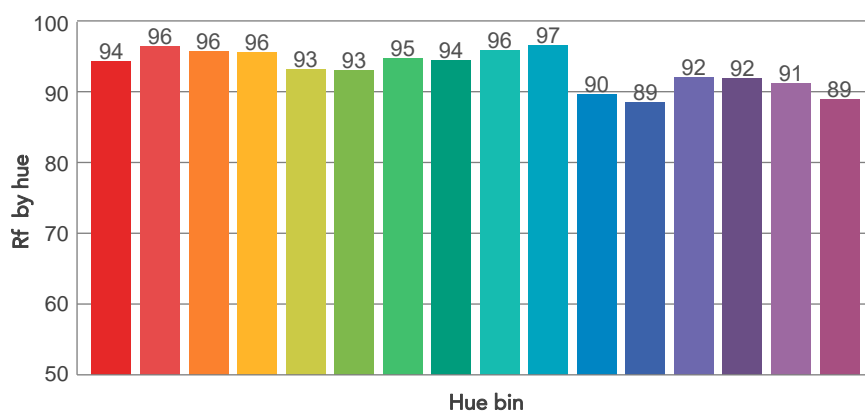
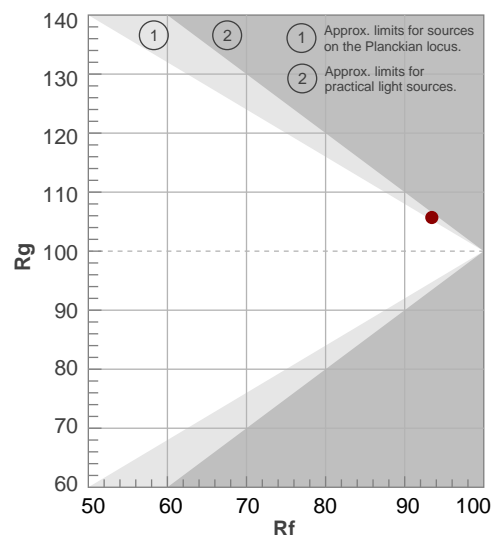
Rf 93,4

Fidelity index Rf

Rg 105,7

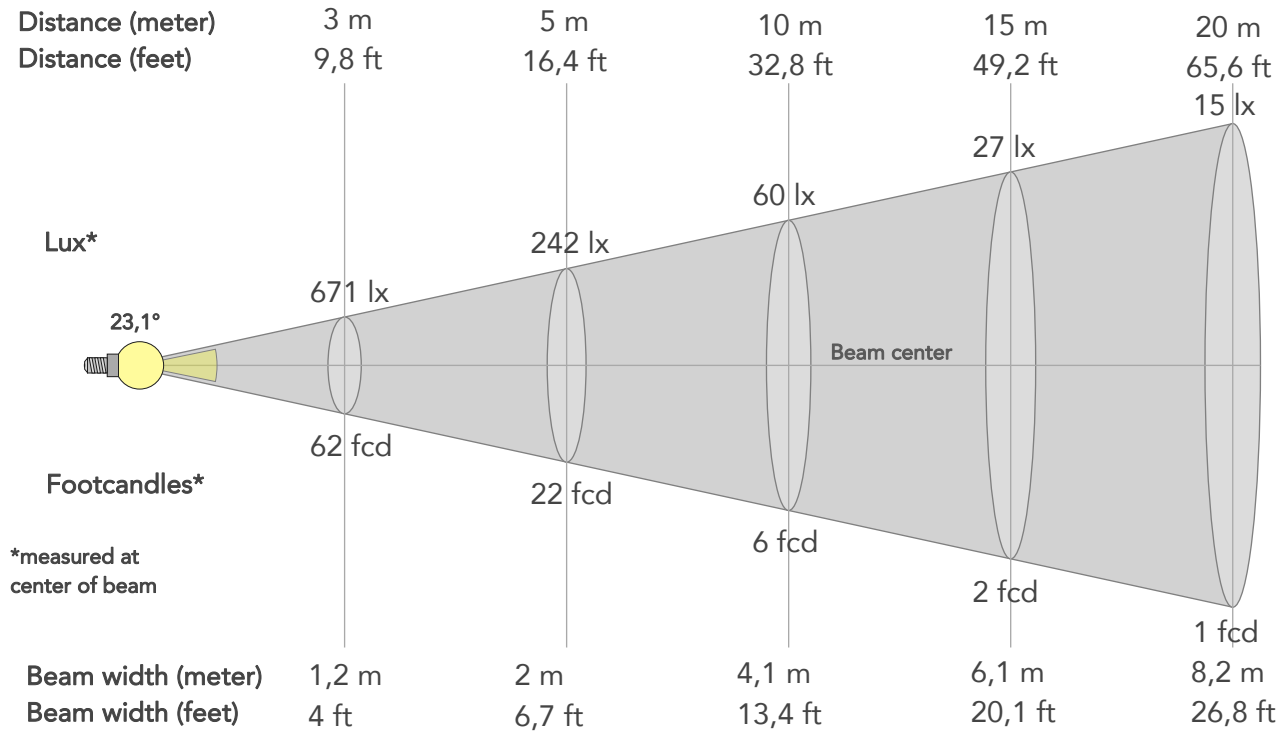
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 94 | 3% | -1% |
| 2 | 96 | 2% | -1% |
| 3 | 96 | 2% | 1% |
| 4 | 96 | 1% | 2% |
| 5 | 93 | 1% | 2% |
| 6 | 93 | 5% | 1% |
| 7 | 95 | 3% | 0% |
| 8 | 94 | 2% | -1% |
| 9 | 96 | 1% | 0% |
| 10 | 97 | -1% | 1% |
| 11 | 90 | 2% | 7% |
| 12 | 89 | 3% | 6% |
| 13 | 92 | 4% | 4% |
| 14 | 92 | 5% | 4% |
| 15 | 91 | 6% | 0% |
| 16 | 89 | 6% | -4% |



BEAM DETAILS

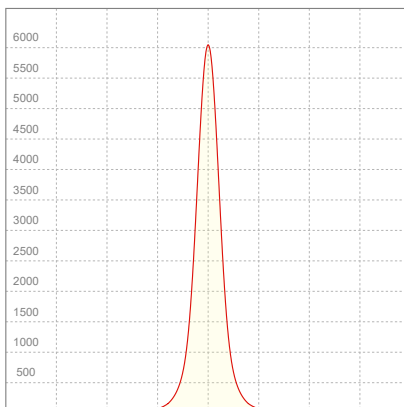
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 23,1° | 46,8° | 72,5° | 97,2% | 93,0% |



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 | 6040lx | 1510lx | 671lx | 377lx | 242lx | 107lx | 60lx | 27lx | 15lx | 10lx | 7lx | 4lx | 2lx |
| Footcand. | 561fcd | 140fcd | 62fcd | 35fcd | 22fcd | 10fcd | 6fcd | 2fcd | 1fcd | 1fcd | 1fcd | 0fcd | 0fcd |
| Beam wid. | 0,4m | 0,8m | 1,2m | 1,6m | 2m | 3,1m | 4,1m | 6,1m | 8,2m | 10,2m | 12,3m | 16,4m | 20,5m |
| Beam wid. | 1,4ft | 2,7ft | 4ft | 5,4ft | 6,7ft | 10,1ft | 13,4ft | 20,1ft | 26,8ft | 33,6ft | 40,3ft | 53,7ft | 67,1ft |

LINEAR DISTRIBUTION DIAGRAM

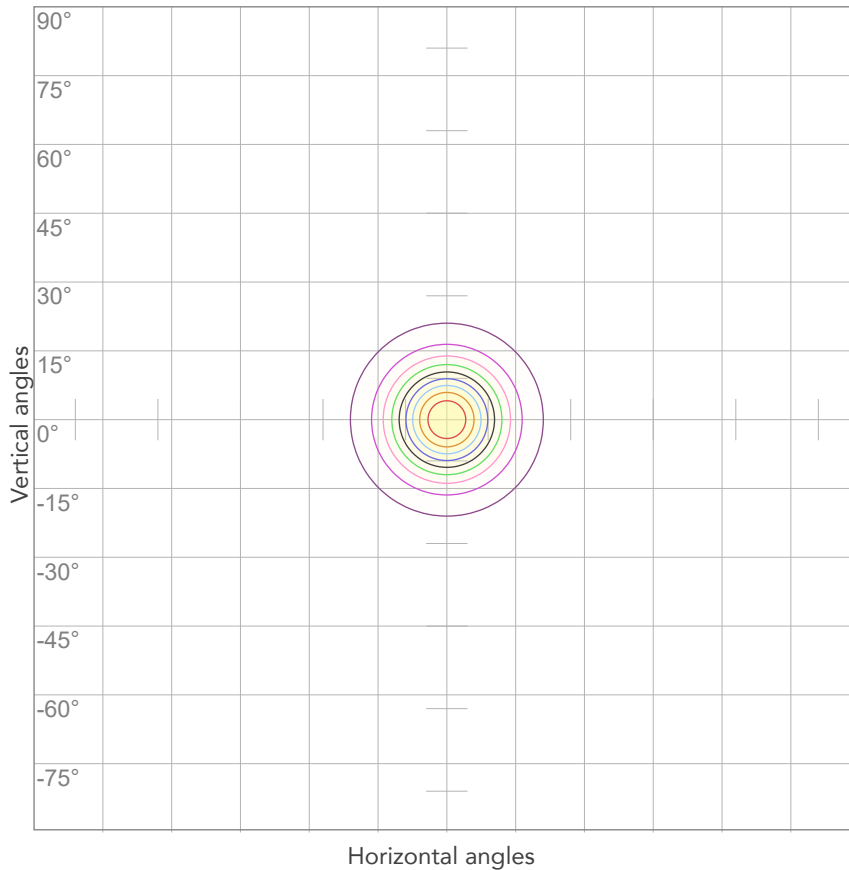


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Effeciency |
|---------------|---------------|-------------|----------|------------|
| 226V | 0,144A | 31,1W | 0,95 | 47lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



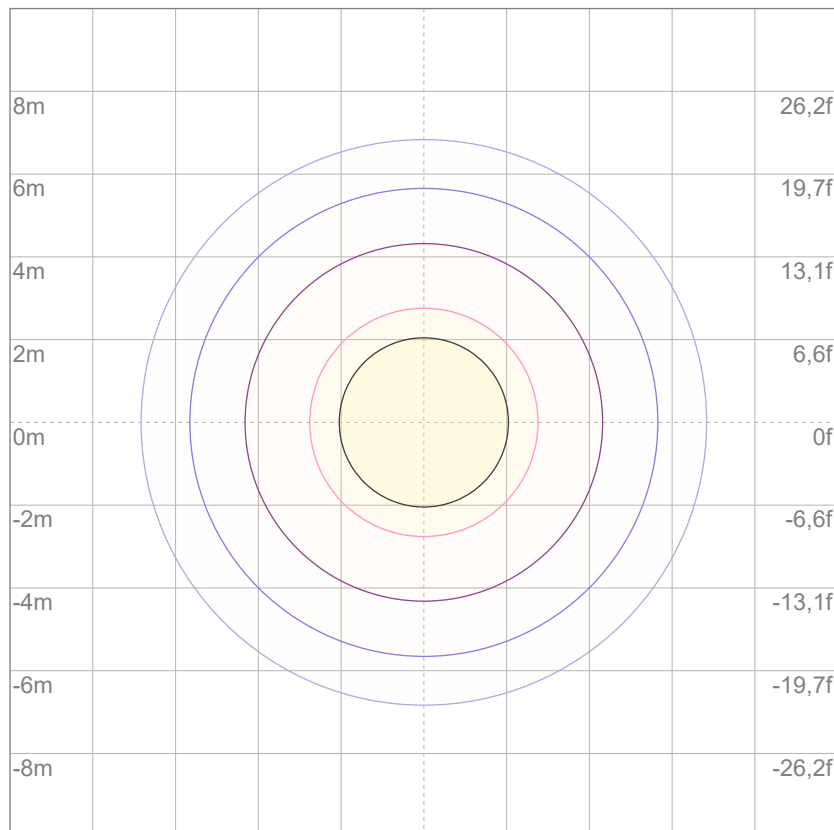
| | |
|-----|---------|
| 10% | 604 cd |
| 20% | 1208 cd |
| 30% | 1812 cd |
| 40% | 2416 cd |
| 50% | 3020 cd |
| 60% | 3624 cd |
| 70% | 4228 cd |
| 80% | 4832 cd |

Conditions:

Number of c-planes: 2

Candela at center: 6040 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 1,81 lx |
| 5% | 3,02 lx |
| 10% | 6,04 lx |
| 30% | 18,1 lx |
| 50% | 30,2 lx |

Conditions:

Number of c-planes: 2

Lux at center: 60,4 lx

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



Total lumen output:

1425 lm

Peak candela output:

1761 cd

Light quality:

CRI: 93,6

Color temperature:

4052 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 40° Filter

Target:

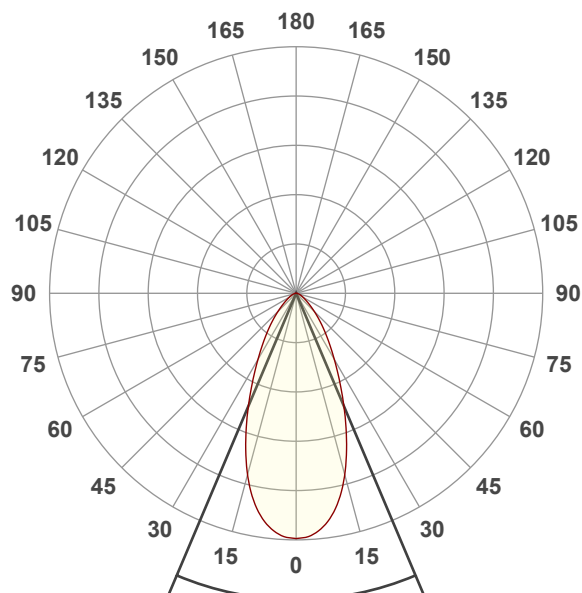
4000K

Operator:

Salvatore Giglio

Date and time:

19/02/2024 17:39:39

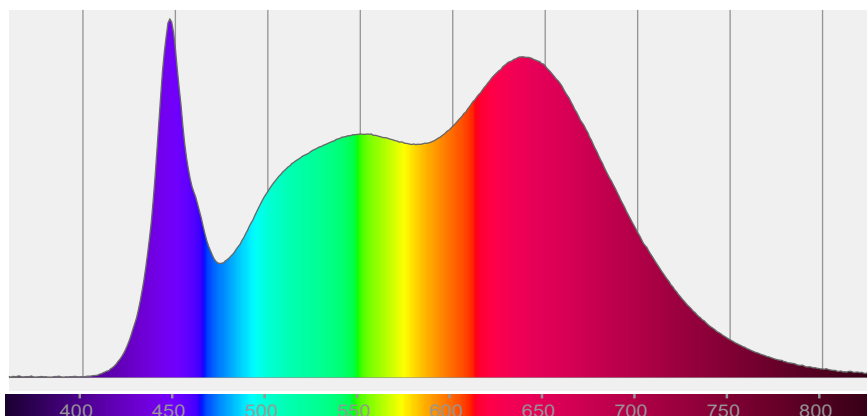


Beam angle 50%: 45,9°

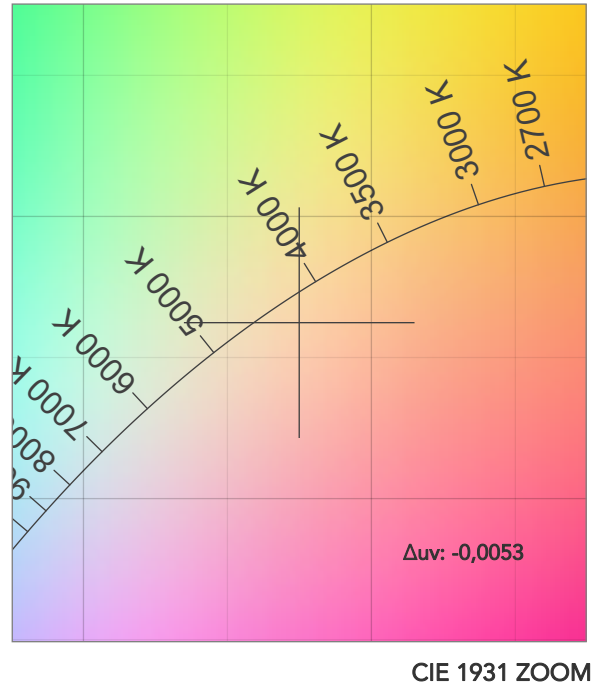
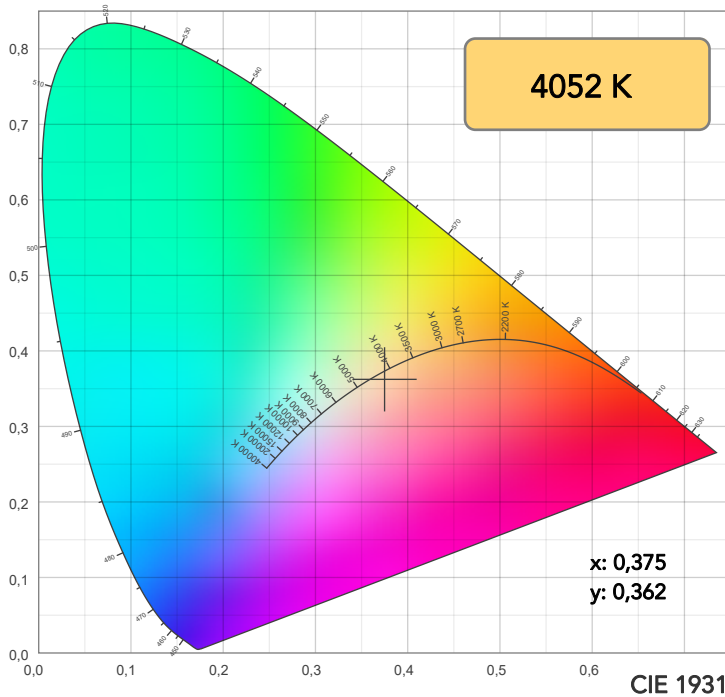
Field angle 10%: 91,2°

Cut off angle 2.5%: 128,3°

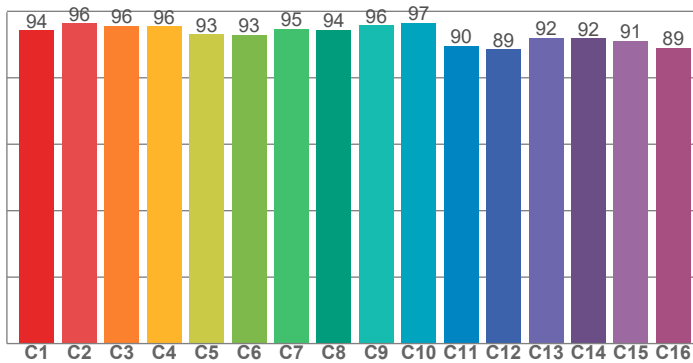
Spectra



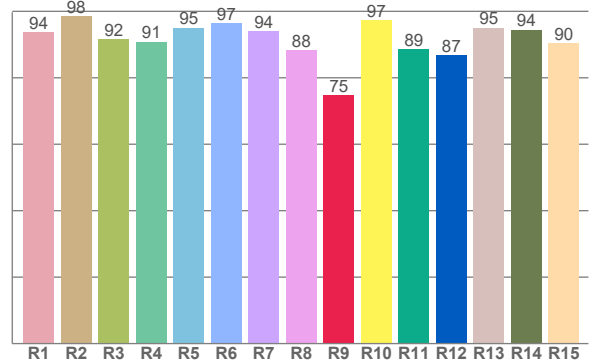
COLOR DETAILS



TM30: 93,4



CRI: 93,6 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 93,7 | 98,4 | 91,6 | 90,8 | 95,1 | 96,5 | 94,1 | 88,4 | 74,8 | 97,4 | 88,6 | 86,9 | 95,1 | 94,5 | 90,4 |

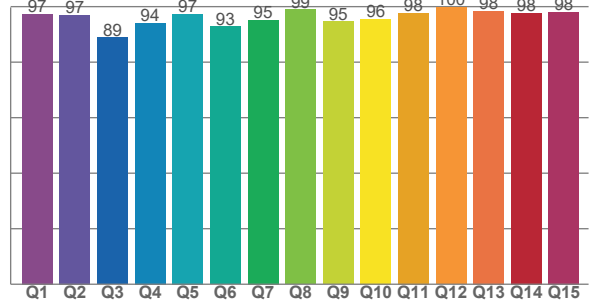
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,3 | 96,4 | 95,6 | 95,5 | 93,1 | 93,0 | 94,7 | 94,4 | 95,8 | 96,5 | 89,5 | 88,5 | 92,0 | 91,8 | 91,1 | 88,9 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 97,4 | 97,0 | 88,9 | 94,1 | 97,4 | 92,8 | 95,3 | 98,9 | 94,6 | 95,5 | 97,6 | 99,8 | 98,4 | 97,6 | 98,0 |

CQS: 95,4



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 |
| 4052 K | 93,6 | 74,8 | 93,4 | 105,7 | 95,4 | 97 | 0,375 | 0,362 | -0,0053 |

TM30 DETAILS

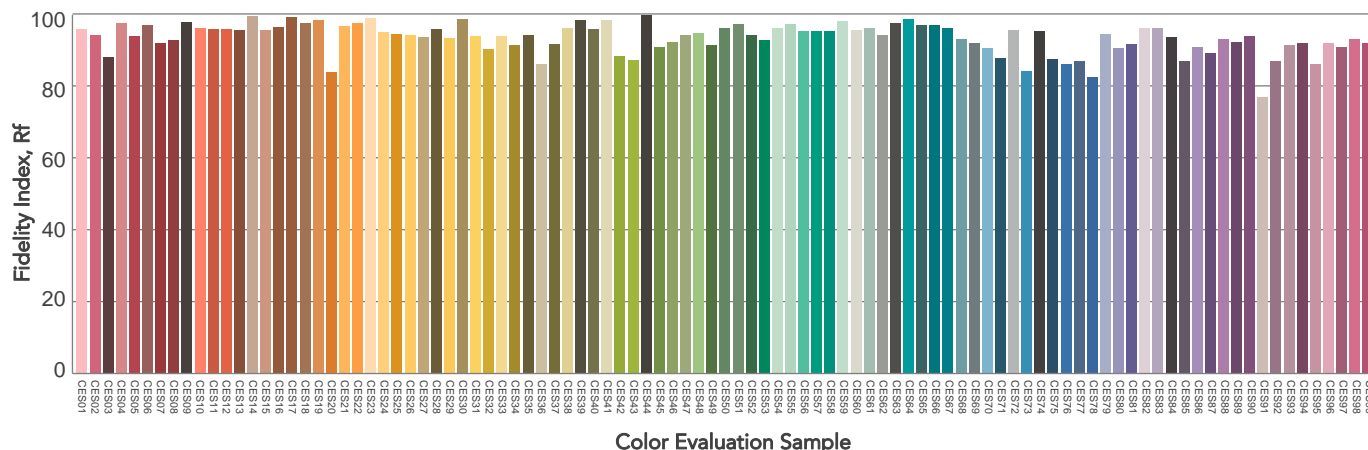
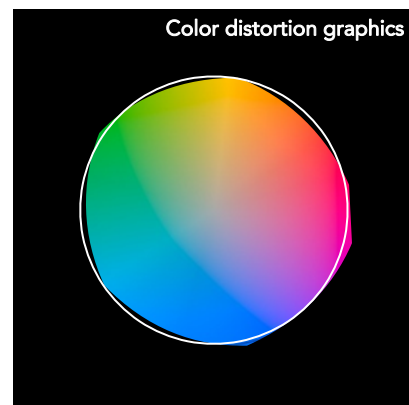
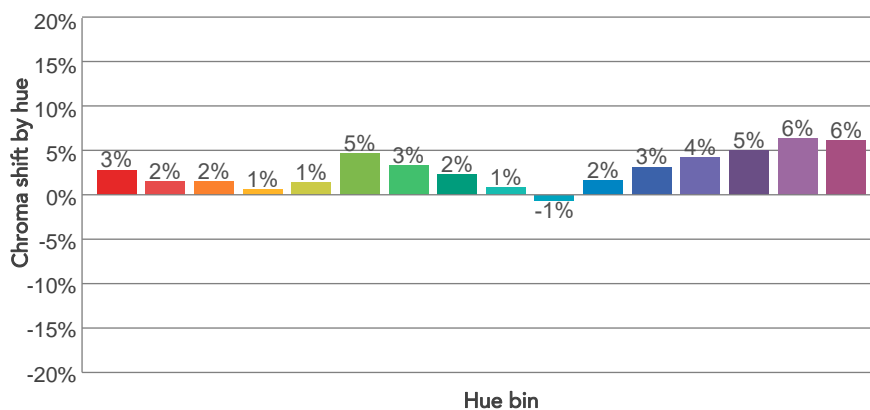
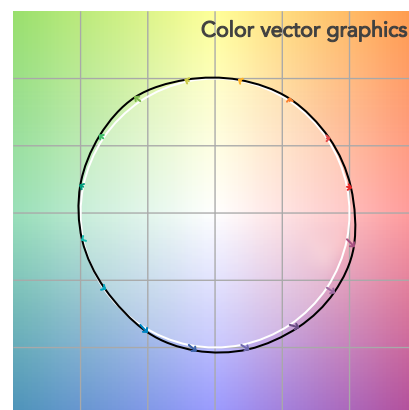
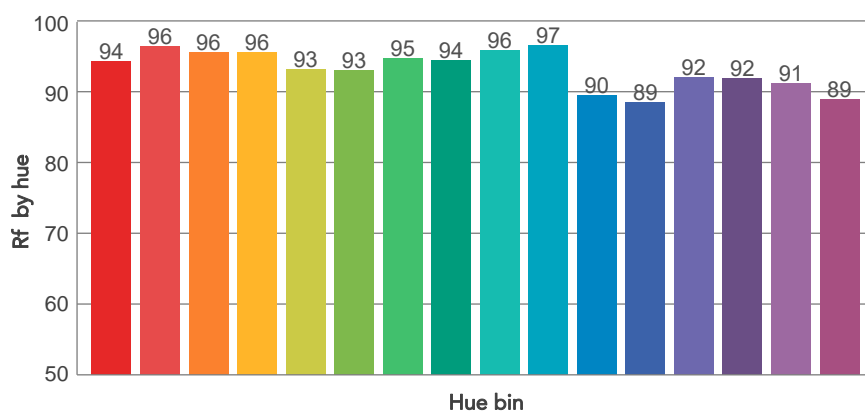
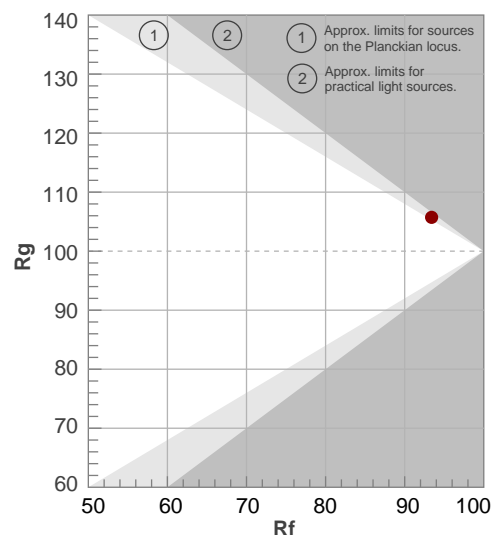
Rf 93,4

Fidelity index Rf

Rg 105,7

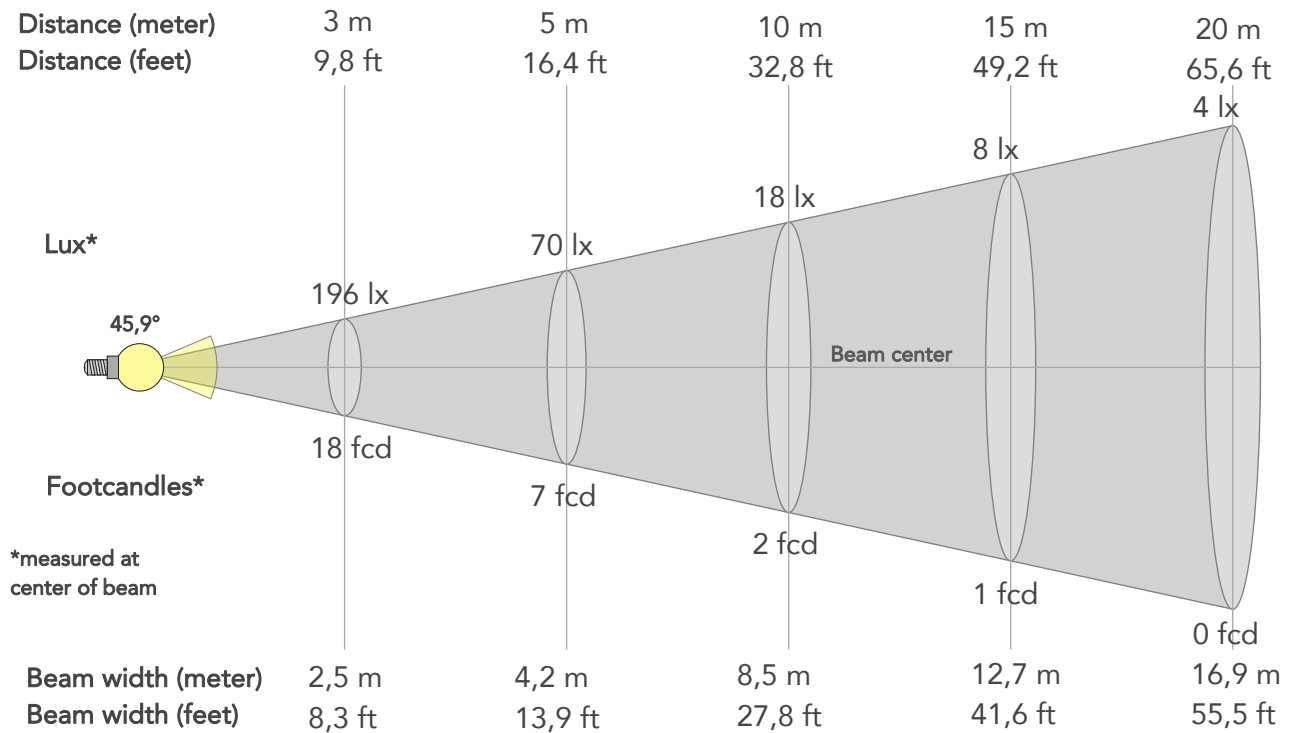
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 94 | 3% | -1% |
| 2 | 96 | 2% | -1% |
| 3 | 96 | 2% | 1% |
| 4 | 96 | 1% | 2% |
| 5 | 93 | 1% | 2% |
| 6 | 93 | 5% | 1% |
| 7 | 95 | 3% | 0% |
| 8 | 94 | 2% | -1% |
| 9 | 96 | 1% | 0% |
| 10 | 97 | -1% | 1% |
| 11 | 90 | 2% | 7% |
| 12 | 89 | 3% | 6% |
| 13 | 92 | 4% | 4% |
| 14 | 92 | 5% | 4% |
| 15 | 91 | 6% | 0% |
| 16 | 89 | 6% | -4% |



BEAM DETAILS

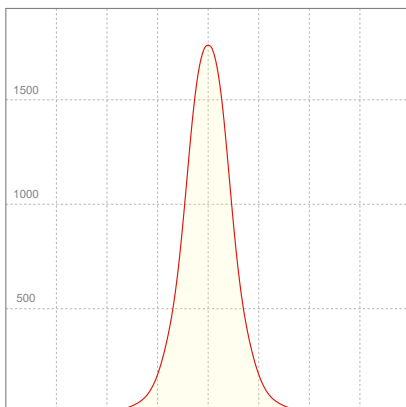
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 45,9° | 91,2° | 128,3° | 94,8% | 85,2% |



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 | 1761lx | 440lx | 196lx | 110lx | 70lx | 31lx | 18lx | 8lx | 4lx | 3lx | 2lx | 1lx | 1lx |
| Footcand. | 164fcd | 41fcd | 18fcd | 10fcd | 7fcd | 3fcd | 2fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,8m | 1,7m | 2,5m | 3,4m | 4,2m | 6,3m | 8,5m | 12,7m | 16,9m | 21,2m | 25,4m | 33,9m | 42,3m |
| Beam wid. | 2,8ft | 5,6ft | 8,3ft | 11,1ft | 13,9ft | 20,8ft | 27,8ft | 41,6ft | 55,5ft | 69,4ft | 83,3ft | 111,1ft | 138,8ft |

LINEAR DISTRIBUTION DIAGRAM

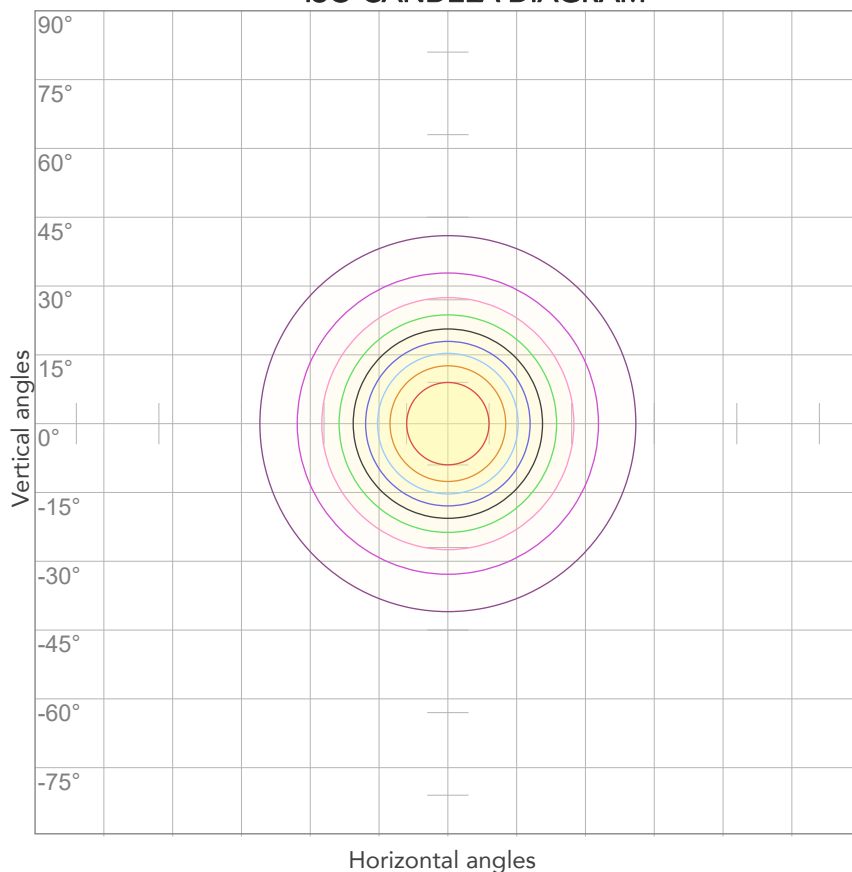


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Effeciency |
|---------------|---------------|-------------|----------|------------|
| 226V | 0,144A | 31,1W | 0,95 | 46lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



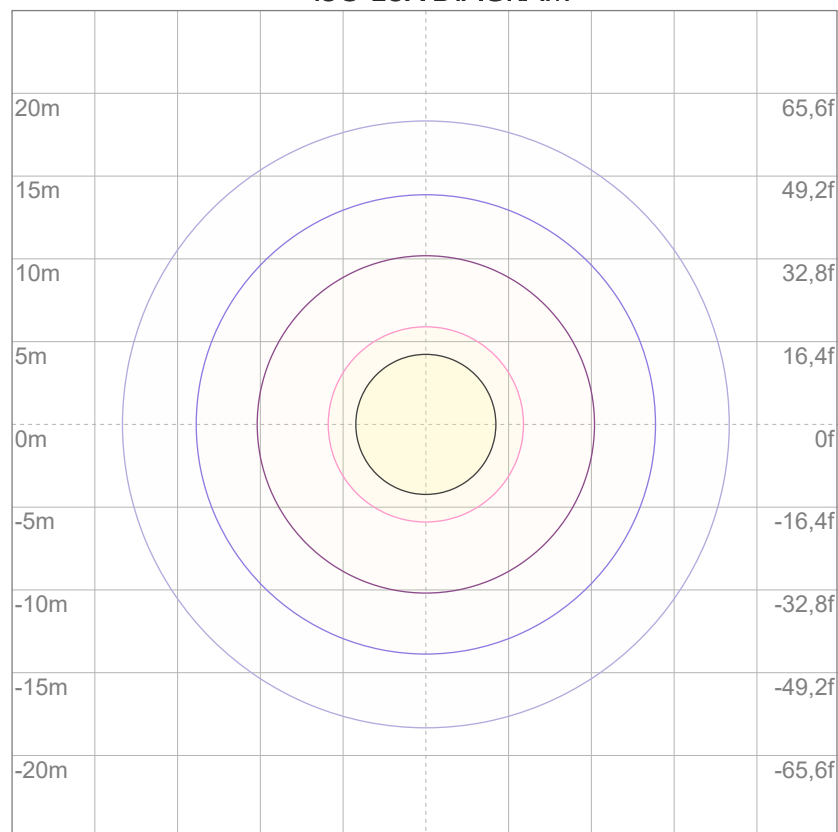
| | |
|-----|---------|
| 10% | 176 cd |
| 20% | 352 cd |
| 30% | 528 cd |
| 40% | 704 cd |
| 50% | 881 cd |
| 60% | 1057 cd |
| 70% | 1233 cd |
| 80% | 1409 cd |

Conditions:

Number of c-planes: 2

Candela at center: 1761 cd

ISO LUX DIAGRAM



| | |
|-----|----------|
| 3% | 0,528 lx |
| 5% | 0,881 lx |
| 10% | 1,76 lx |
| 30% | 5,28 lx |
| 50% | 8,81 lx |

Conditions:

Number of c-planes: 2

Lux at center: 17,6 lx

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



Total lumen output:

1431 lm

Peak candela output:

1306 cd

Light quality:

CRI: 93,8

Color temperature:

4071 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 60° Filter

Target:

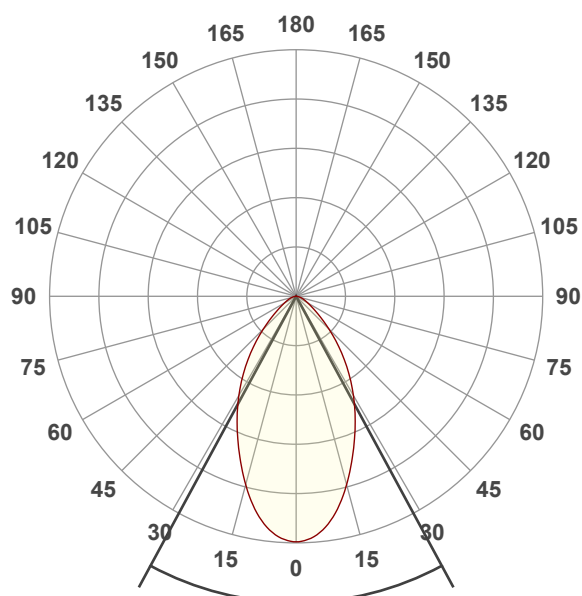
4000K

Operator:

Salvatore Giglio

Date and time:

20/02/2024 09:23:47

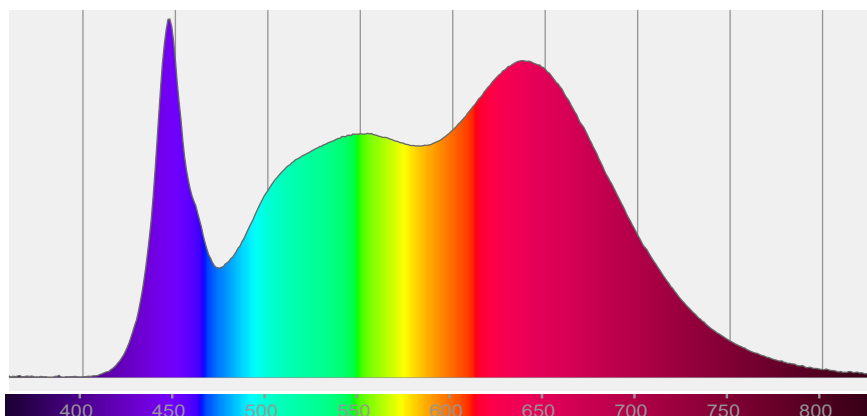


Beam angle 50%: 56,8°

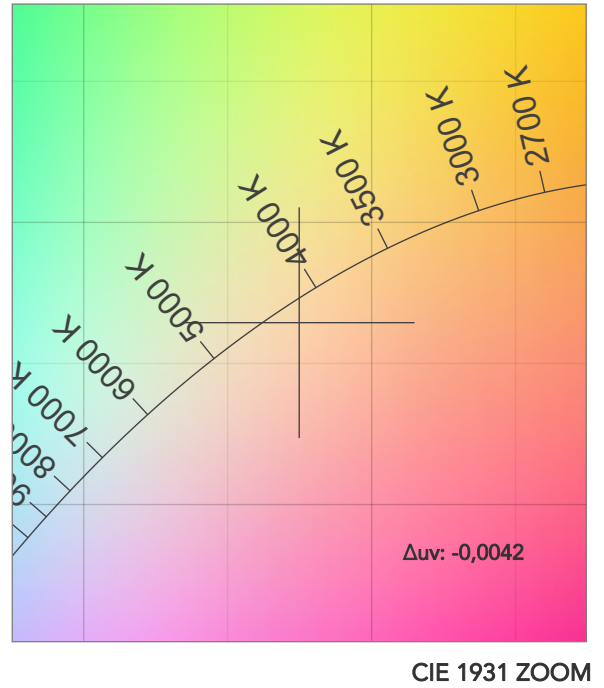
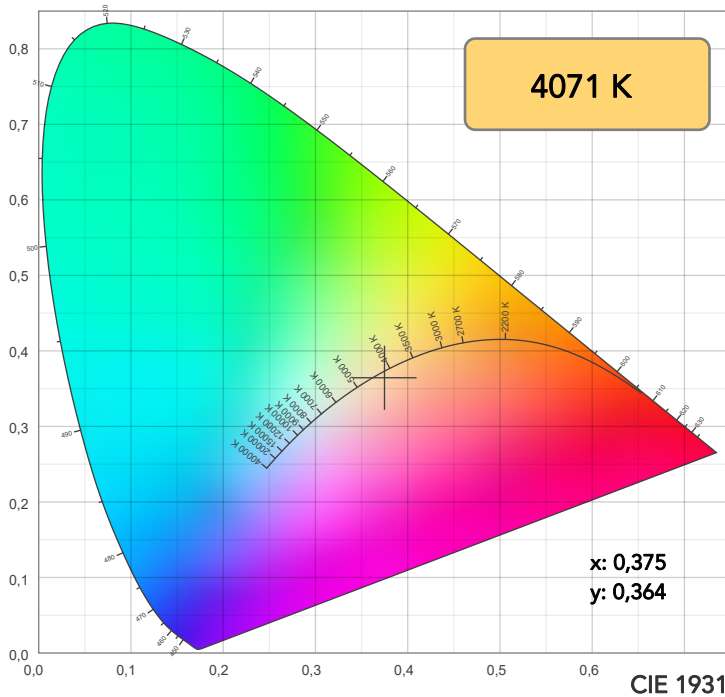
Field angle 10%: 105,2°

Cut off angle 2.5%: 142,9°

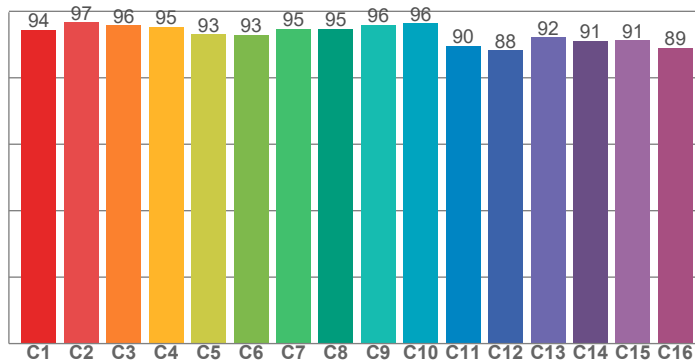
Spectra



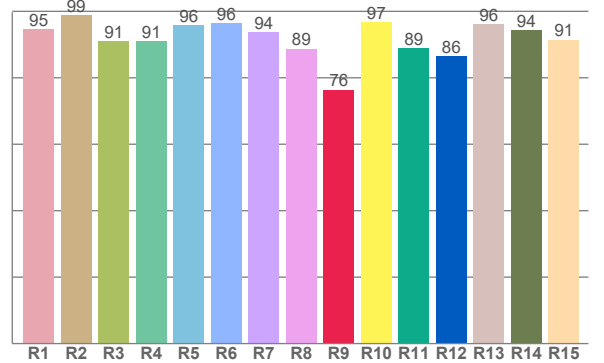
COLOR DETAILS



TM30: 93,4



CRI: 93,8 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,6 | 98,7 | 91,1 | 91,0 | 95,9 | 96,4 | 93,7 | 88,7 | 76,4 | 96,7 | 89,0 | 86,5 | 96,0 | 94,3 | 91,4 |

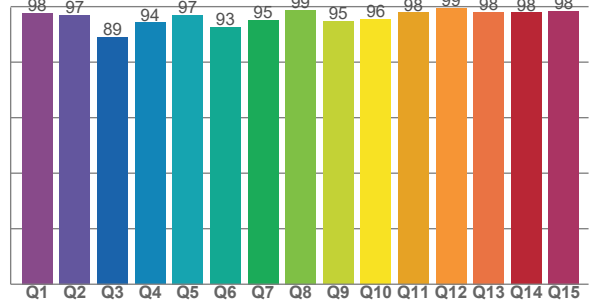
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,4 | 96,6 | 95,8 | 95,3 | 93,1 | 92,9 | 94,7 | 94,6 | 96,0 | 96,4 | 89,5 | 88,2 | 92,1 | 91,2 | 91,2 | 88,9 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 97,7 | 97,0 | 89,1 | 94,3 | 97,0 | 92,6 | 95,2 | 98,8 | 94,7 | 95,6 | 97,8 | 99,5 | 98,0 | 97,9 | 98,4 |

CQS: 95,4



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 |
| 4071 K | 93,8 | 76,4 | 93,4 | 105,5 | 95,4 | 97 | 0,375 | 0,364 | -0,0042 |

TM30 DETAILS

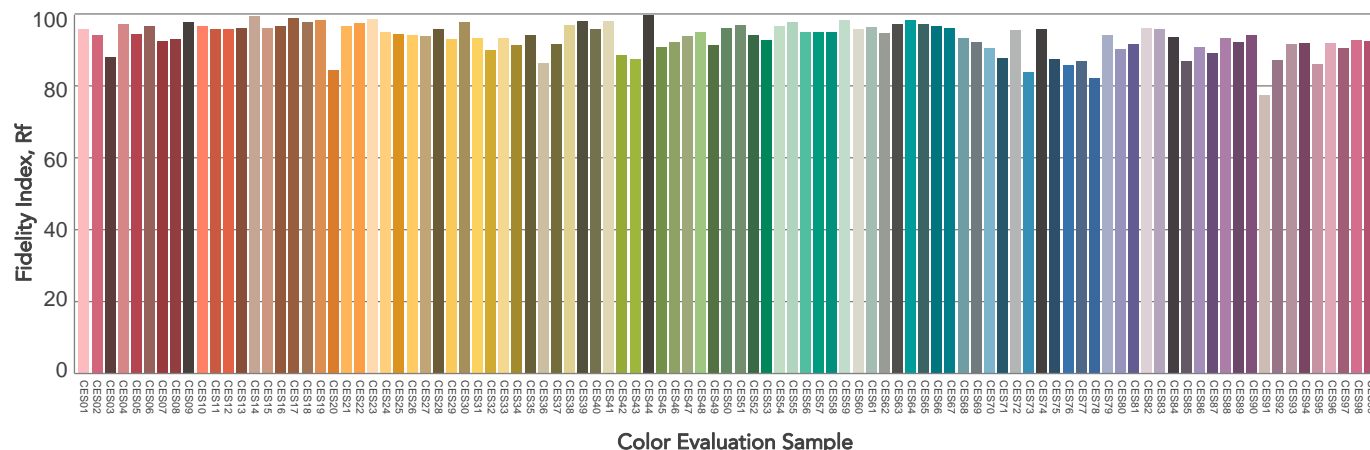
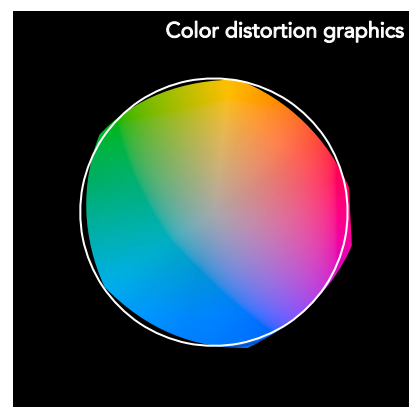
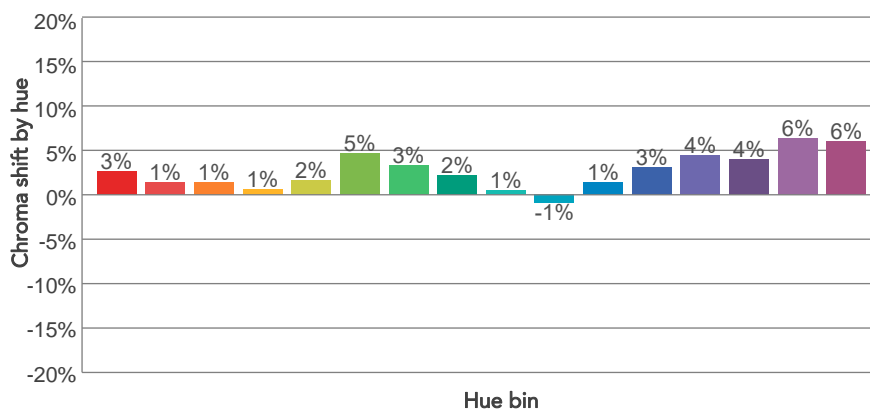
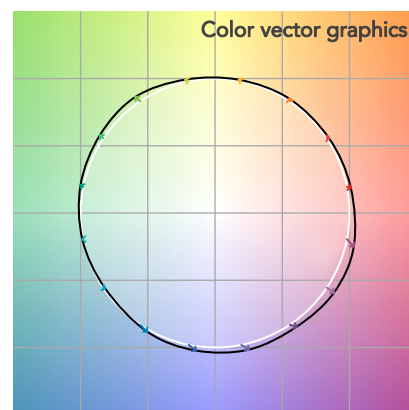
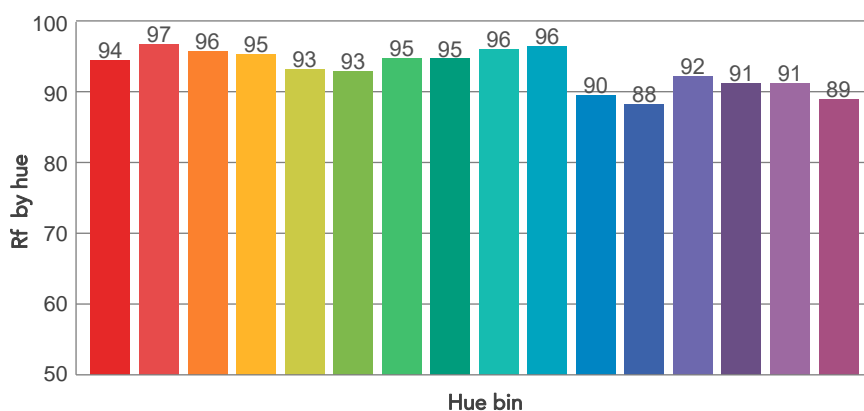
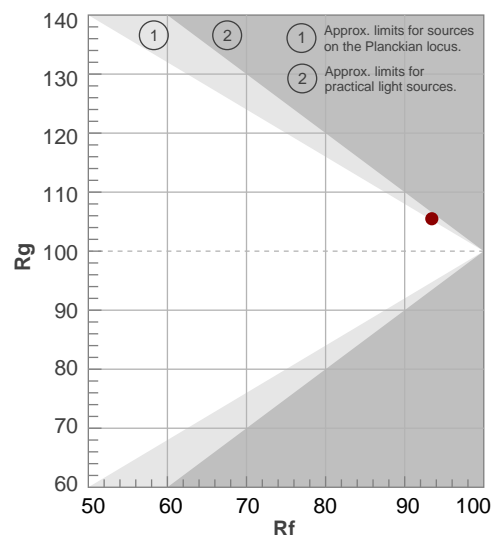
Rf 93,4

Fidelity index Rf

Rg 105,5

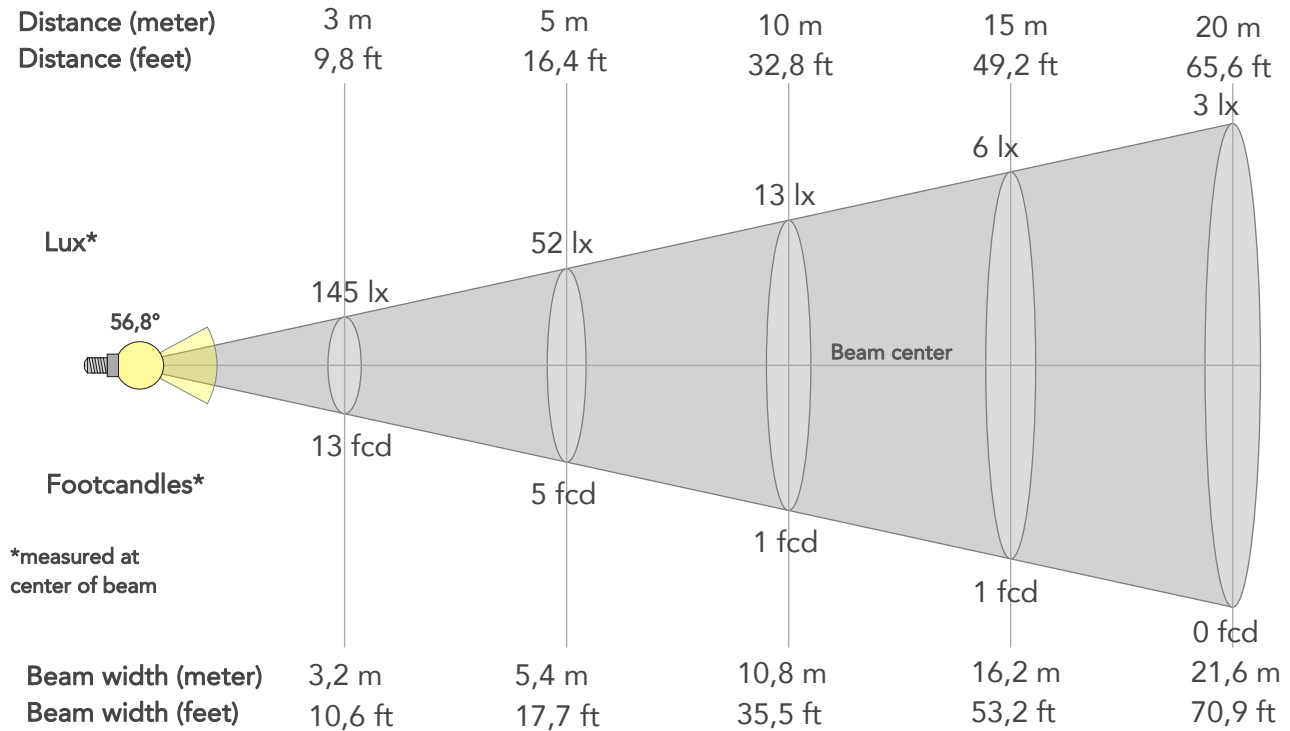
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 94 | 3% | -1% |
| 2 | 97 | 1% | -1% |
| 3 | 96 | 1% | 1% |
| 4 | 95 | 1% | 2% |
| 5 | 93 | 2% | 2% |
| 6 | 93 | 5% | 1% |
| 7 | 95 | 3% | -1% |
| 8 | 95 | 2% | -1% |
| 9 | 96 | 1% | 0% |
| 10 | 96 | -1% | 1% |
| 11 | 90 | 1% | 7% |
| 12 | 88 | 3% | 6% |
| 13 | 92 | 4% | 5% |
| 14 | 91 | 4% | 4% |
| 15 | 91 | 6% | 0% |
| 16 | 89 | 6% | -4% |



BEAM DETAILS

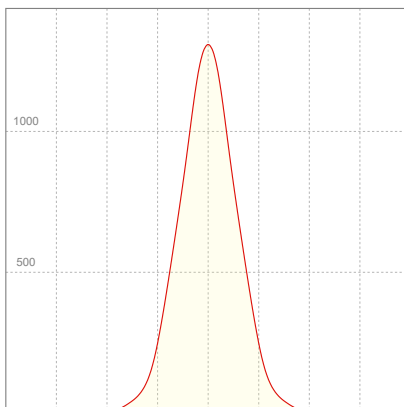
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 56,8° | 105,2° | 142,9° | 93,7% | 81,1% |



BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|-----------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 1306lx | 326lx | 145lx | 82lx | 52lx | 23lx | 13lx | 6lx | 3lx | 2lx | 1lx | 1lx | 1lx |
| Footcand. | 121fcd | 30fcd | 13fcd | 8fcd | 5fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 1,1m | 2,2m | 3,2m | 4,3m | 5,4m | 8,1m | 10,8m | 16,2m | 21,6m | 27m | 32,4m | 43,2m | 54,1m |
| Beam wid. | 3,6ft | 7,1ft | 10,6ft | 14,2ft | 17,7ft | 26,6ft | 35,5ft | 53,2ft | 70,9ft | 88,6ft | 106,4ft | 141,8ft | 177,3ft |

LINEAR DISTRIBUTION DIAGRAM

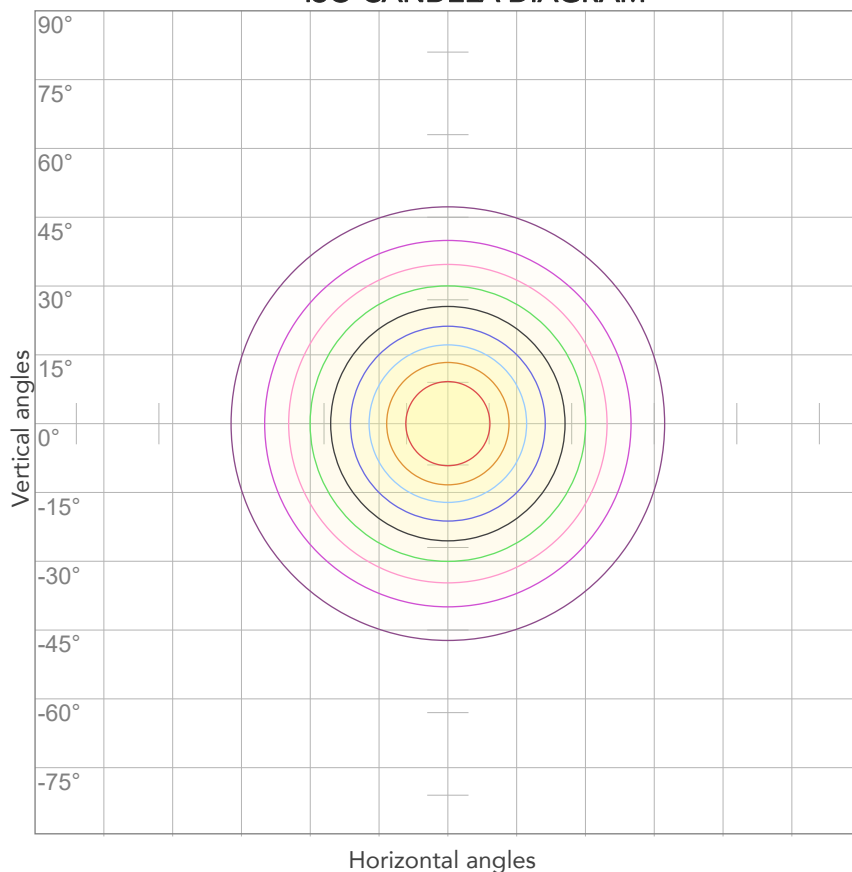


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Efficiency |
|---------------|---------------|-------------|----------|------------|
| 223V | 0,149A | 31,5W | 0,95 | 45lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



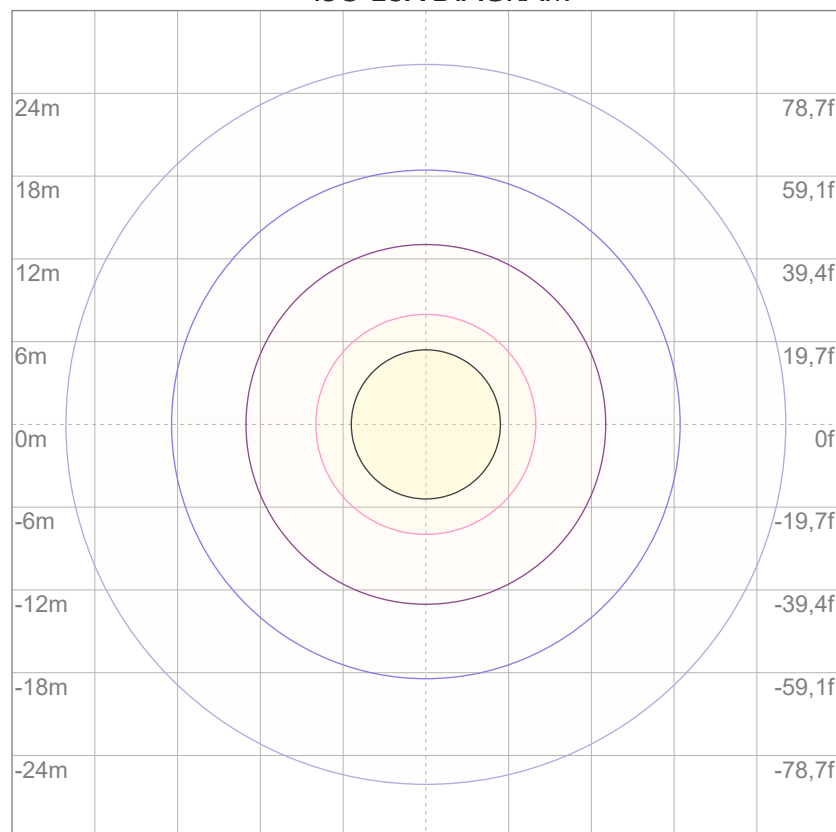
| | |
|-----|---------|
| 10% | 131 cd |
| 20% | 261 cd |
| 30% | 392 cd |
| 40% | 522 cd |
| 50% | 653 cd |
| 60% | 784 cd |
| 70% | 914 cd |
| 80% | 1045 cd |

Conditions:

Number of c-planes: 2

Candela at center: 1306 cd

ISO LUX DIAGRAM



| | |
|-----|----------|
| 3% | 0,392 lx |
| 5% | 0,653 lx |
| 10% | 1,31 lx |
| 30% | 3,92 lx |
| 50% | 6,53 lx |

Conditions:

Number of c-planes: 2

Lux at center: 13,1 lx

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



Total lumen output:

2243 lm

Peak candela output:

4565 cd

Light quality:

CRI: 93,8

Color temperature:

4053 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 10°x 60° Filter

Target:

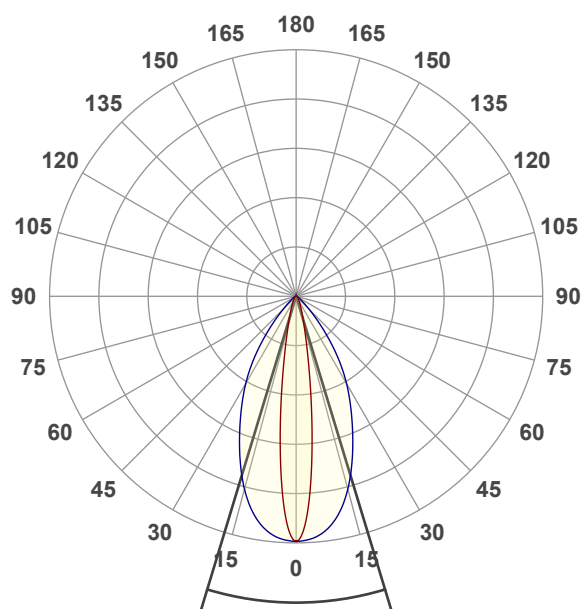
4000K

Operator:

Salvatore Giglio

Date and time:

20/02/2024 10:53:47

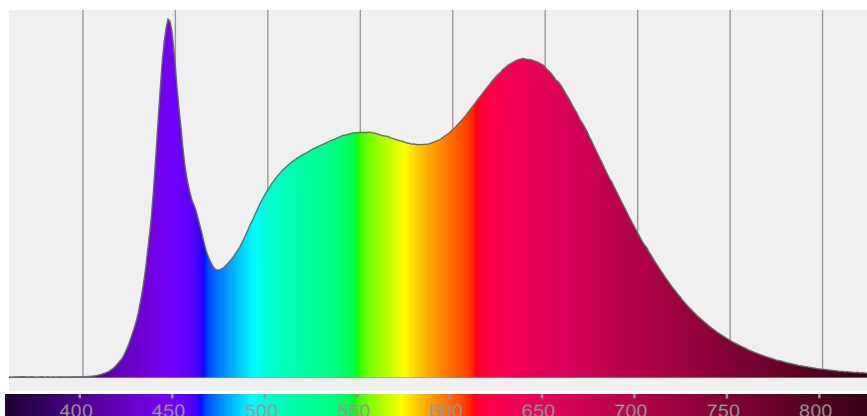


Beam angle 50%: 33,7°

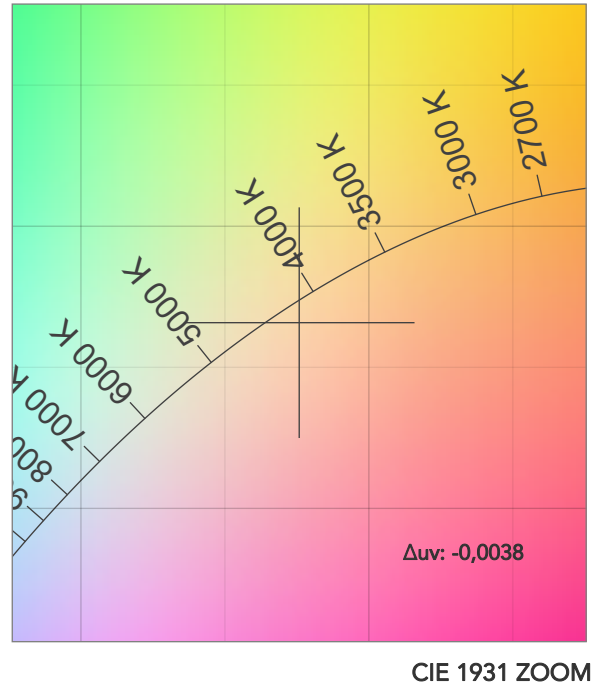
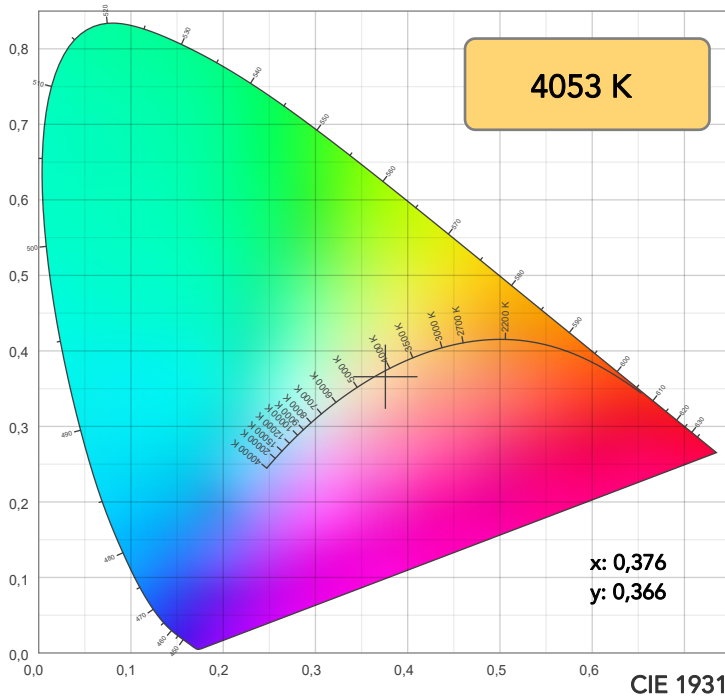
Field angle 10%: 59,9°

Cut off angle 2.5%: 84,4°

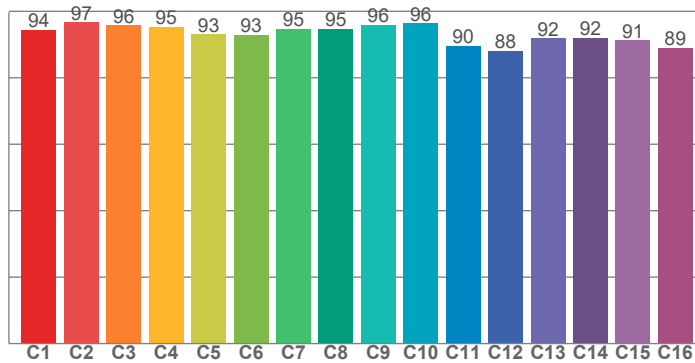
Spectra



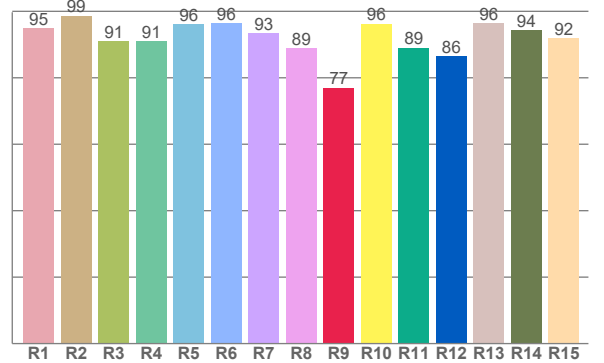
COLOR DETAILS



TM30: 93,4



CRI: 93,8 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,9 | 98,7 | 90,9 | 91,0 | 96,1 | 96,4 | 93,5 | 88,8 | 77,0 | 96,2 | 89,1 | 86,5 | 96,4 | 94,2 | 91,8 |

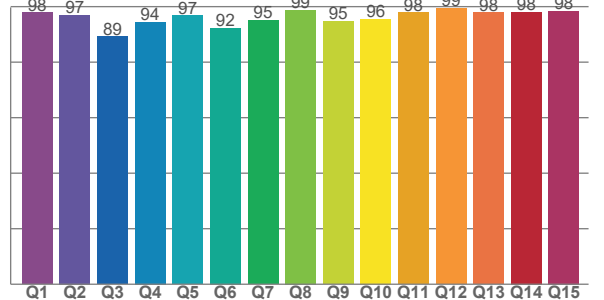
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,4 | 96,7 | 95,8 | 95,2 | 93,1 | 92,9 | 94,7 | 94,7 | 96,0 | 96,4 | 89,6 | 88,2 | 91,9 | 92,0 | 91,3 | 88,9 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 97,8 | 97,0 | 89,2 | 94,4 | 96,7 | 92,3 | 95,1 | 98,8 | 94,7 | 95,5 | 97,8 | 99,4 | 97,9 | 98,0 | 98,5 |

CQS: 95,4



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 |
| 4053 K | 93,8 | 77,0 | 93,4 | 105,5 | 95,4 | 97 | 0,376 | 0,366 | -0,0038 |

TM30 DETAILS

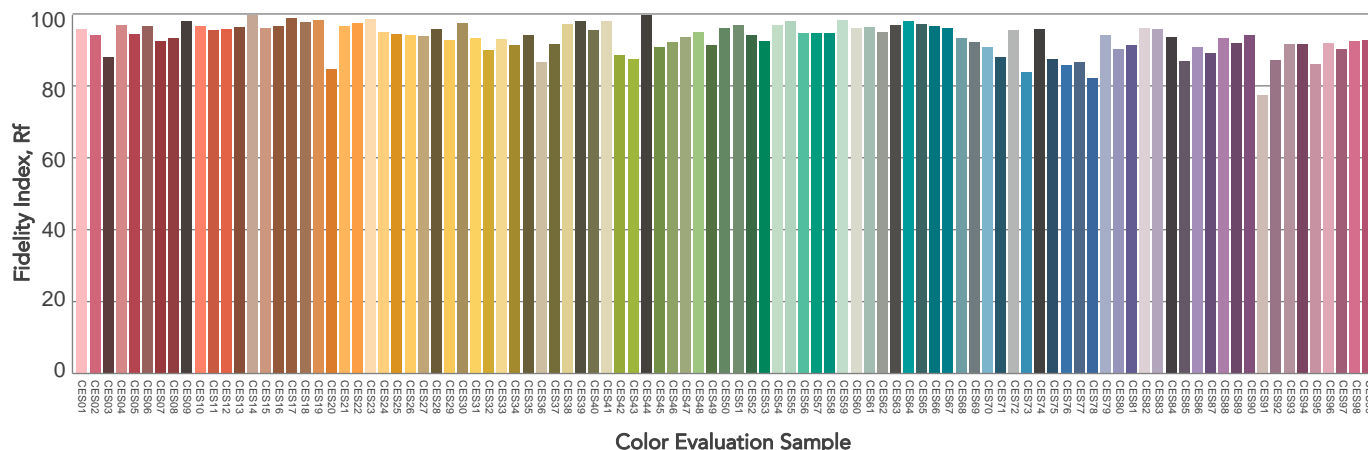
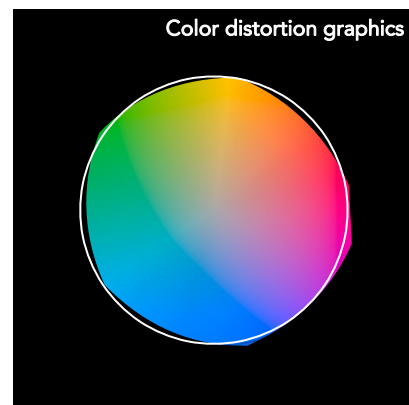
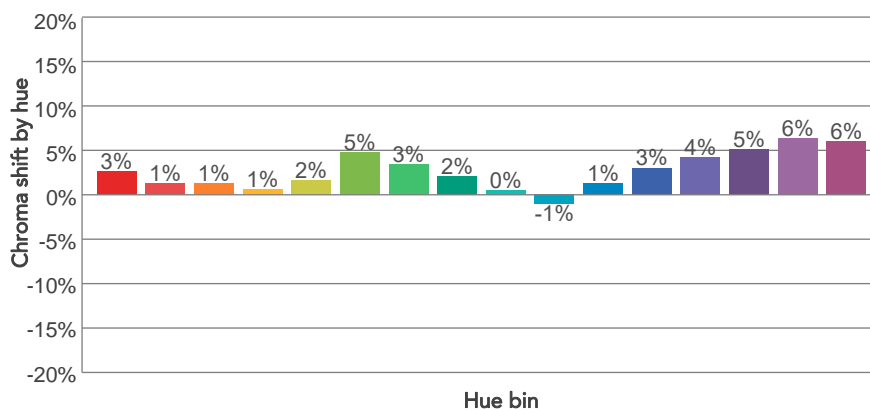
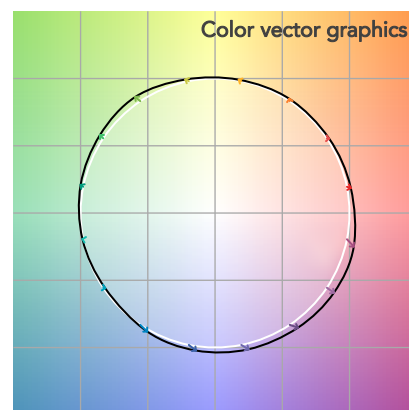
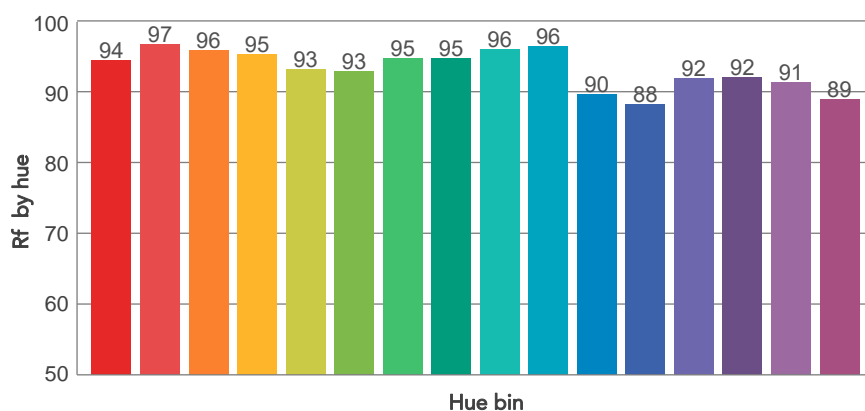
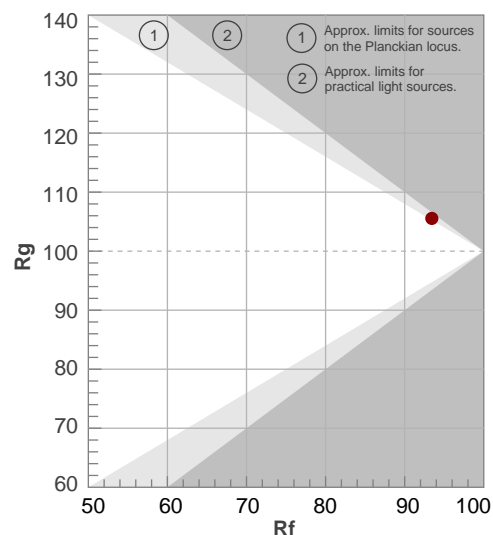
Rf 93,4

Fidelity index Rf

Rg 105,5

Gammut index

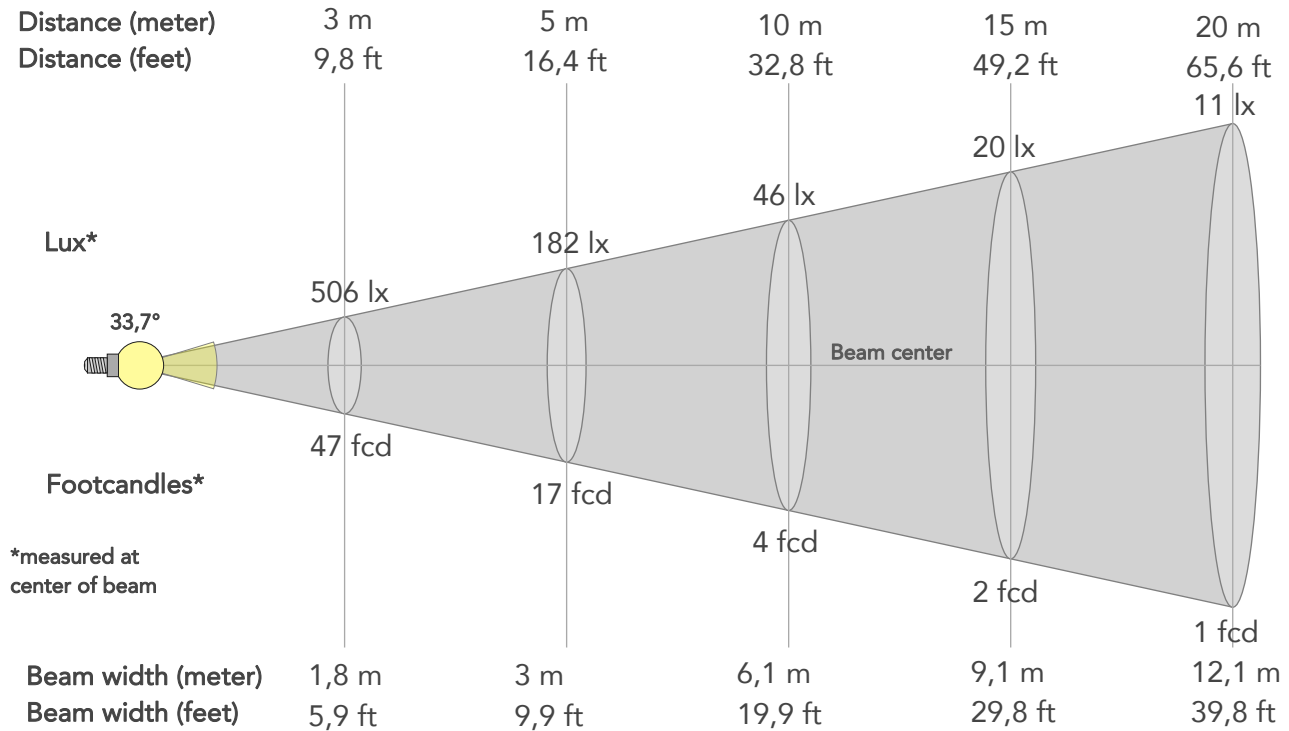
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 94 | 3% | -1% |
| 2 | 97 | 1% | -1% |
| 3 | 96 | 1% | 1% |
| 4 | 95 | 1% | 2% |
| 5 | 93 | 2% | 2% |
| 6 | 93 | 5% | 1% |
| 7 | 95 | 3% | -1% |
| 8 | 95 | 2% | -1% |
| 9 | 96 | 0% | 0% |
| 10 | 96 | -1% | 1% |
| 11 | 90 | 1% | 7% |
| 12 | 88 | 3% | 6% |
| 13 | 92 | 4% | 5% |
| 14 | 92 | 5% | 4% |
| 15 | 91 | 6% | 0% |
| 16 | 89 | 6% | -4% |



BEAM DETAILS



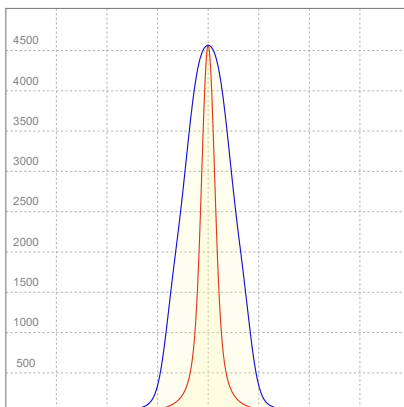
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 33,7° | 59,9° | 84,4° | 97,4% | 92,3% |



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 | 4557lx | 1139lx | 506lx | 285lx | 182lx | 81lx | 46lx | 20lx | 11lx | 7lx | 5lx | 3lx | 2lx |
| Footcand. | 423fcd | 106fcd | 47fcd | 26fcd | 17fcd | 8fcd | 4fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,6m | 1,2m | 1,8m | 2,4m | 3m | 4,5m | 6,1m | 9,1m | 12,1m | 15,2m | 18,2m | 24,3m | 30,3m |
| Beam wid. | 2ft | 4ft | 5,9ft | 7,9ft | 9,9ft | 14,9ft | 19,9ft | 29,8ft | 39,8ft | 49,7ft | 59,7ft | 79,6ft | 99,5ft |

LINEAR DISTRIBUTION DIAGRAM

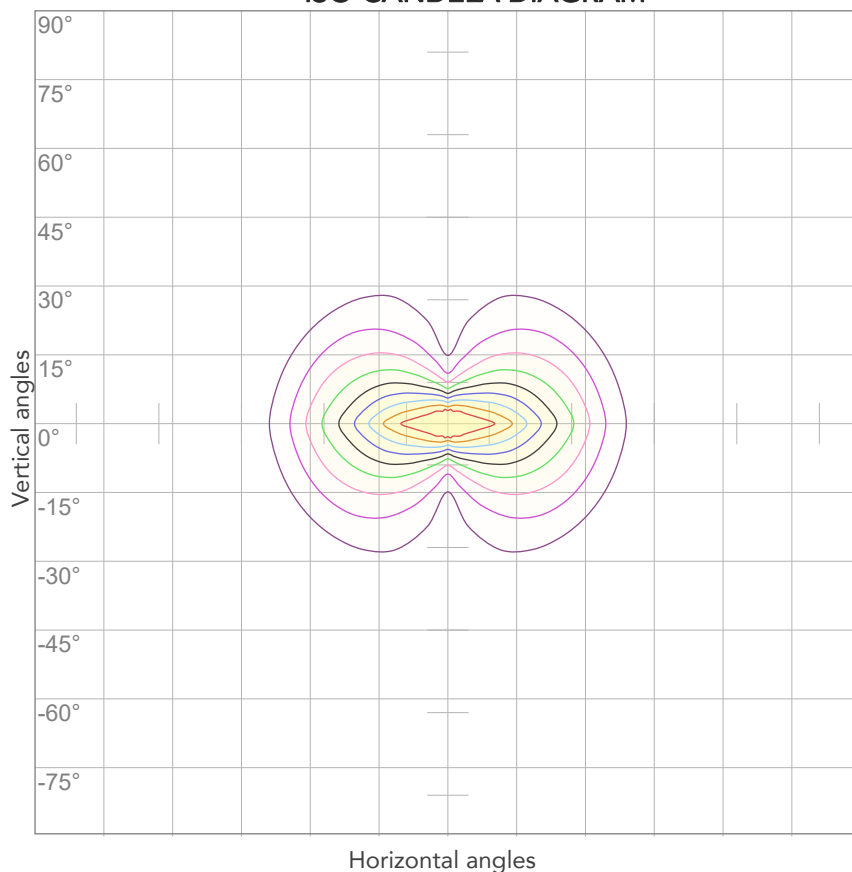


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Efficiency |
|---------------|---------------|-------------|----------|------------|
| 225V | 0,146A | 31,6W | 0,96 | 71lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



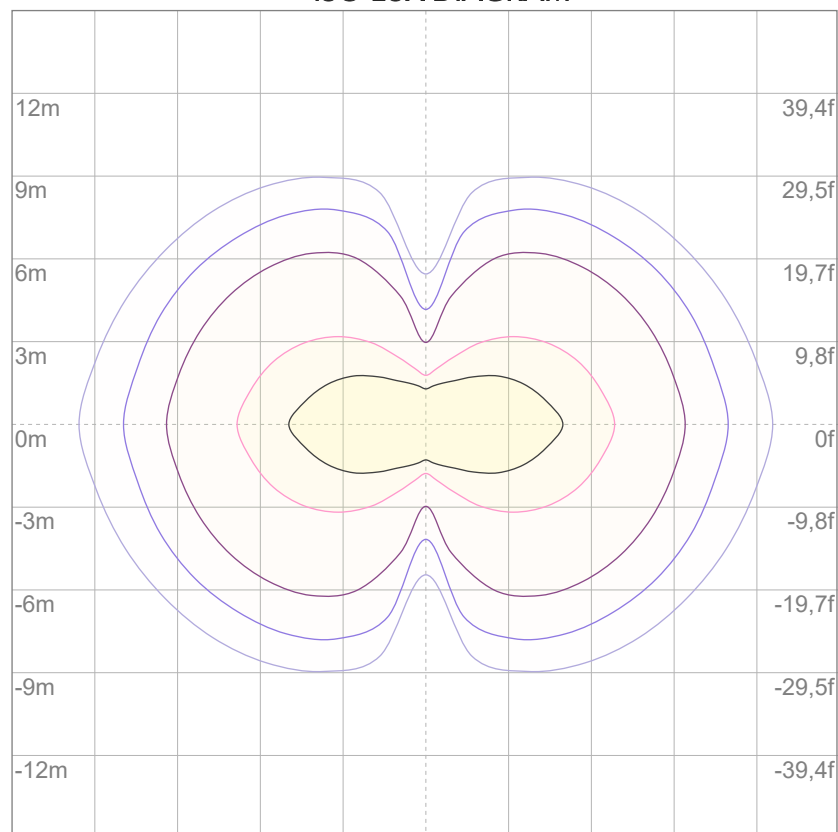
| | |
|-----|---------|
| 10% | 456 cd |
| 20% | 911 cd |
| 30% | 1367 cd |
| 40% | 1823 cd |
| 50% | 2278 cd |
| 60% | 2734 cd |
| 70% | 3190 cd |
| 80% | 3646 cd |

Conditions:

Number of c-planes: 4

Candela at center: 4557 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 1,37 lx |
| 5% | 2,28 lx |
| 10% | 4,56 lx |
| 30% | 13,7 lx |
| 50% | 22,8 lx |

Conditions:

Number of c-planes: 4

Lux at center: 45,6 lx

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



Total lumen output:

1355 lm

Peak candela output:

2231 cd

Light quality:

CRI: 93,6

Color temperature:

4056 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 30°x 60° Filter

Target:

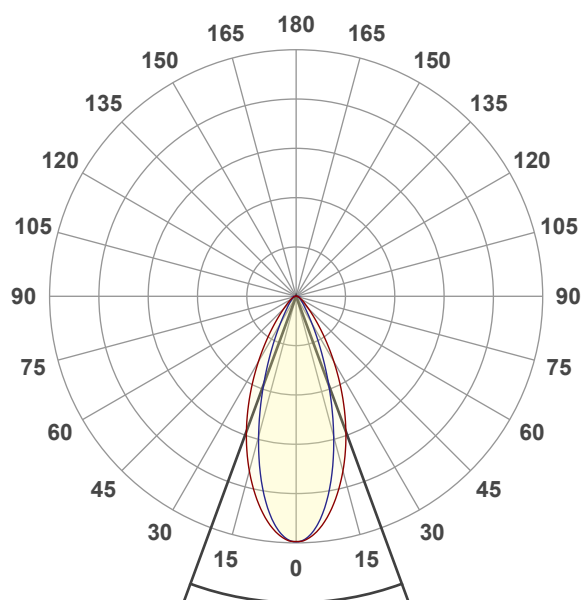
4000K

Operator:

Salvatore Giglio

Date and time:

20/02/2024 11:56:05

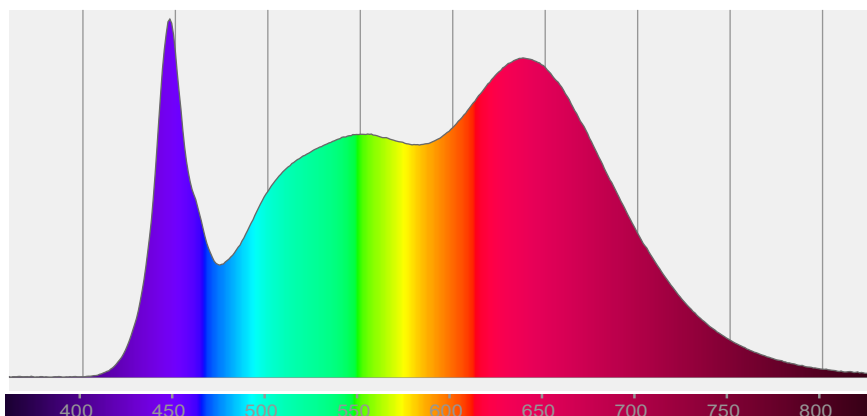


Beam angle 50%: 40,4°

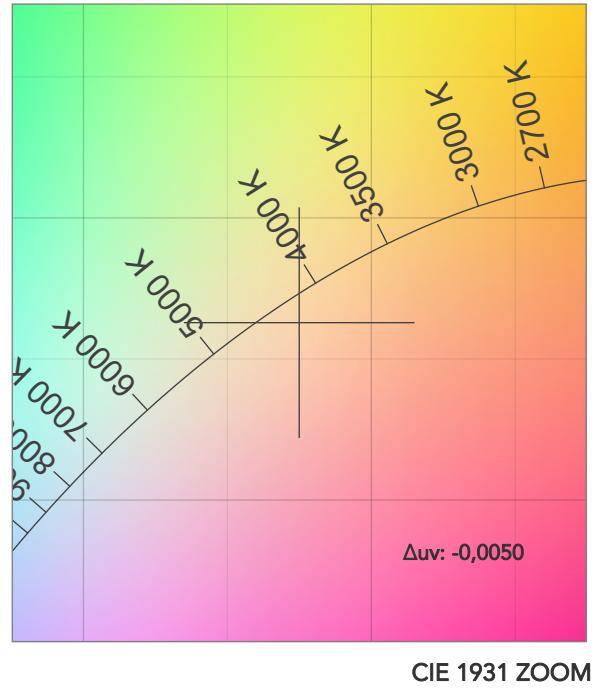
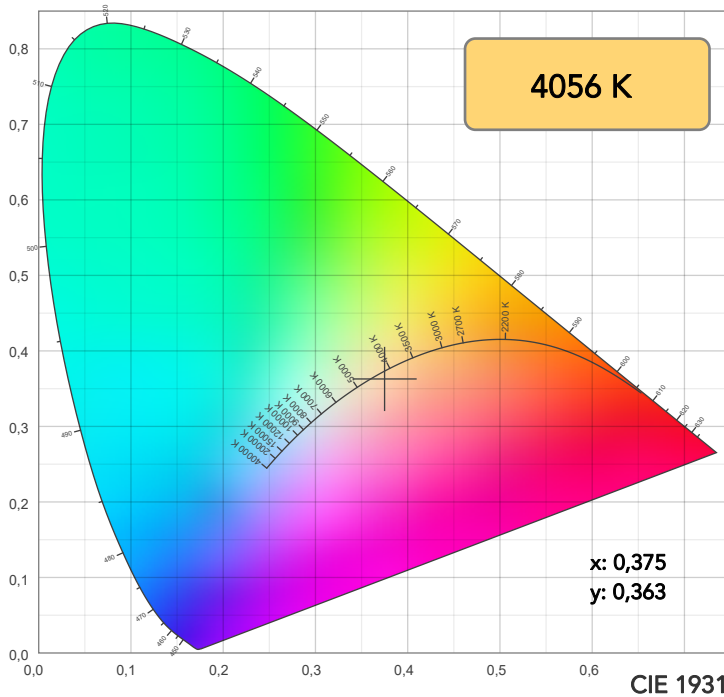
Field angle 10%: 73,9°

Cut off angle 2.5%: 111,6°

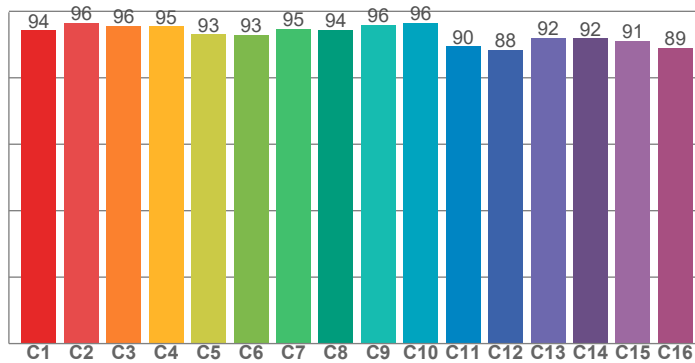
Spectra



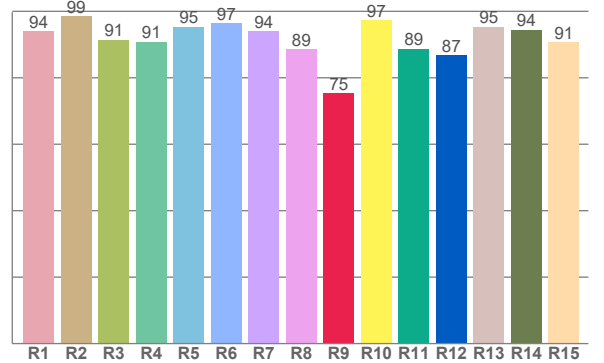
COLOR DETAILS



TM30: 93,4



CRI: 93,6 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,0 | 98,5 | 91,4 | 90,9 | 95,3 | 96,5 | 94,0 | 88,5 | 75,4 | 97,2 | 88,7 | 86,8 | 95,4 | 94,4 | 90,7 |

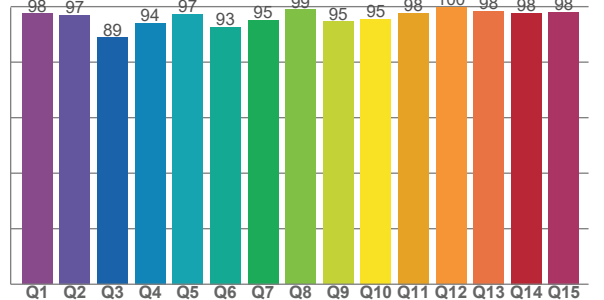
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,3 | 96,5 | 95,6 | 95,4 | 93,1 | 93,0 | 94,7 | 94,5 | 95,9 | 96,5 | 89,5 | 88,4 | 92,0 | 91,9 | 91,2 | 88,9 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 97,5 | 97,0 | 88,9 | 94,2 | 97,3 | 92,7 | 95,2 | 98,9 | 94,6 | 95,5 | 97,6 | 99,7 | 98,3 | 97,7 | 98,1 |

CQS: 95,4



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 |
| 4056 K | 93,6 | 75,4 | 93,4 | 105,7 | 95,4 | 97 | 0,375 | 0,363 | -0,0050 |

TM30 DETAILS

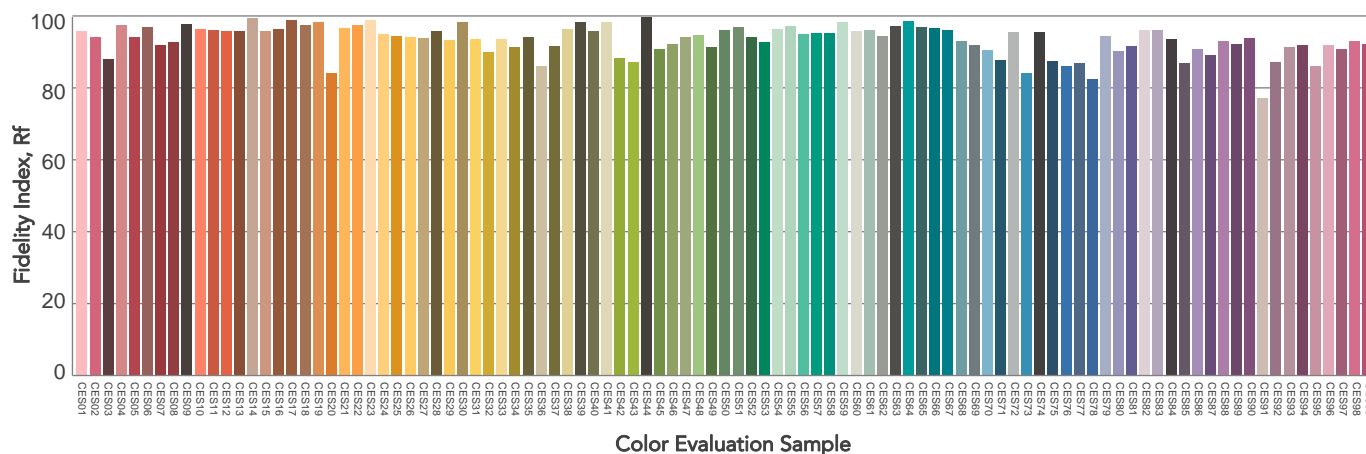
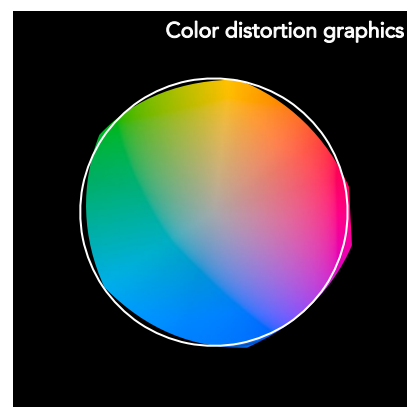
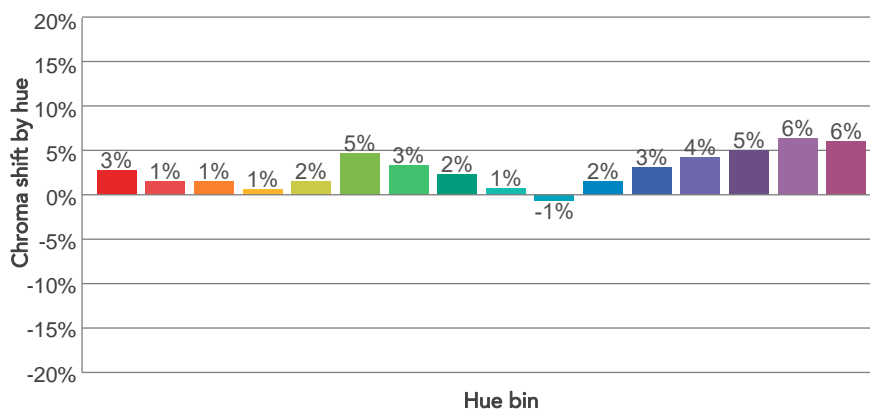
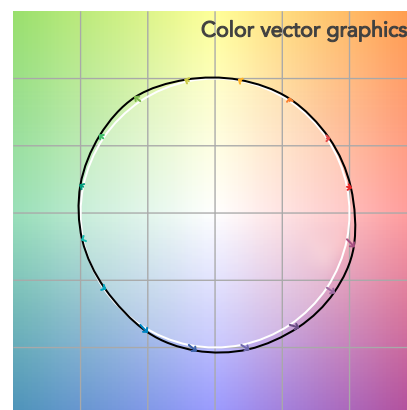
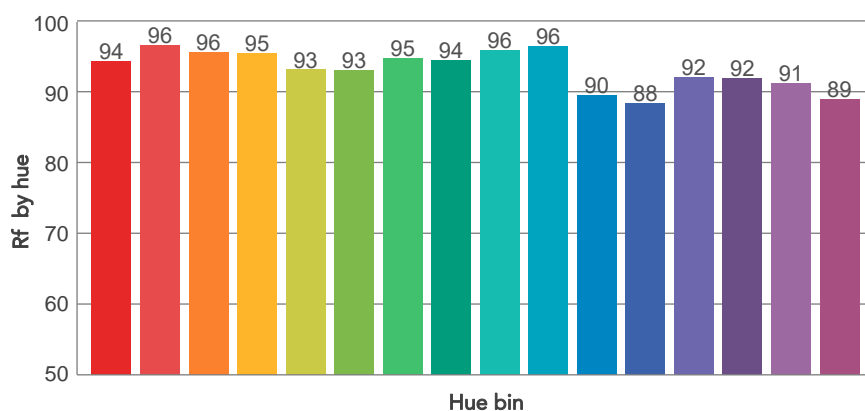
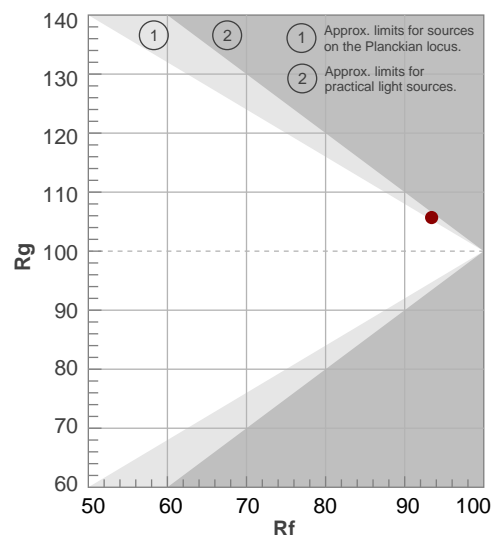
Rf 93,4

Fidelity index Rf

Rg 105,7

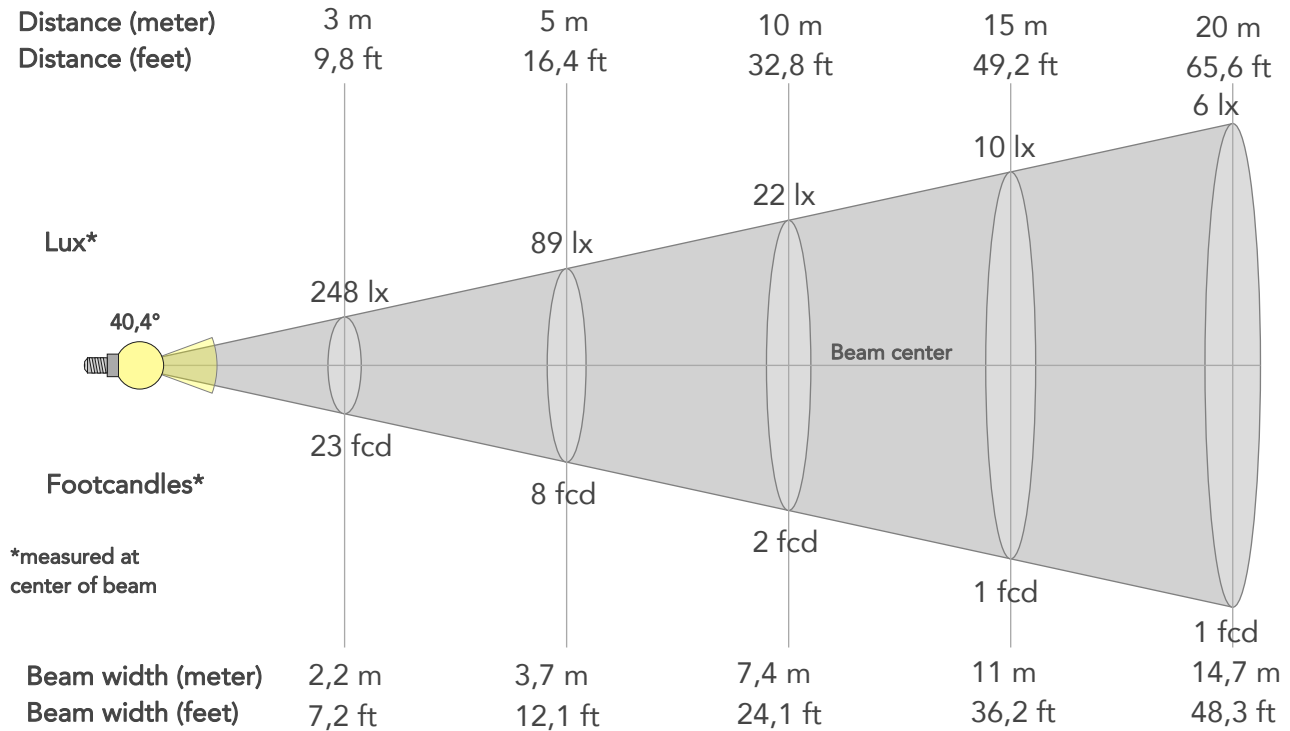
Gammut index

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



BEAM DETAILS

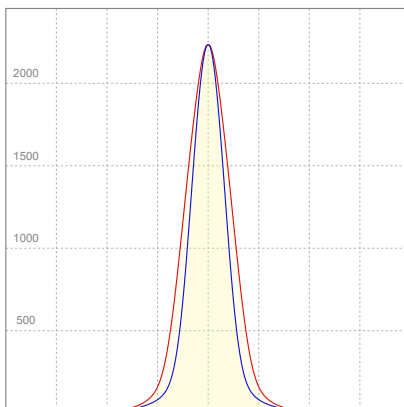
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 40,4° | 73,9° | 111,6° | 95,5% | 88,4% |



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 | 2231lx | 558lx | 248lx | 139lx | 89lx | 40lx | 22lx | 10lx | 6lx | 4lx | 2lx | 1lx | 1lx |
| Footcand. | 207fcd | 52fcd | 23fcd | 13fcd | 8fcd | 4fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,7m | 1,5m | 2,2m | 2,9m | 3,7m | 5,5m | 7,4m | 11m | 14,7m | 18,4m | 22,1m | 29,4m | 36,8m |
| Beam wid. | 2,4ft | 4,9ft | 7,2ft | 9,6ft | 12,1ft | 18,1ft | 24,1ft | 36,2ft | 48,3ft | 60,3ft | 72,4ft | 96,5ft | 120,6ft |

LINEAR DISTRIBUTION DIAGRAM

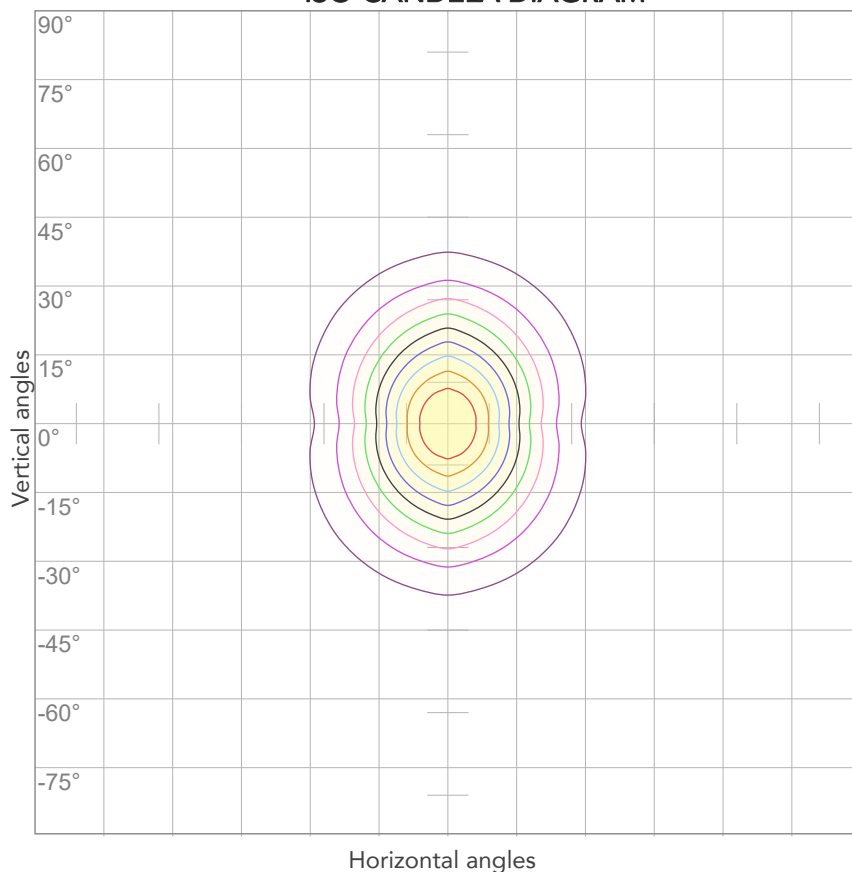


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Efficiency |
|---------------|---------------|-------------|----------|------------|
| 226V | 0,144A | 31,2W | 0,96 | 44lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



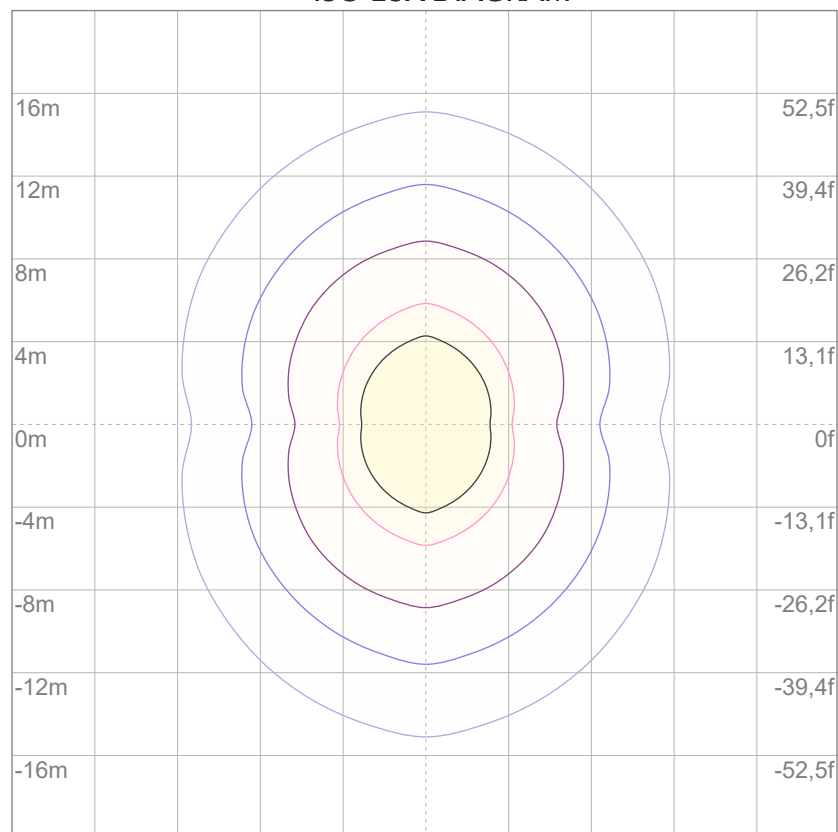
| | |
|-----|---------|
| 10% | 223 cd |
| 20% | 446 cd |
| 30% | 669 cd |
| 40% | 892 cd |
| 50% | 1115 cd |
| 60% | 1338 cd |
| 70% | 1562 cd |
| 80% | 1785 cd |

Conditions:

Number of c-planes: 4

Candela at center: 2231 cd

ISO LUX DIAGRAM



| | |
|-----|----------|
| 3% | 0,669 lx |
| 5% | 1,12 lx |
| 10% | 2,23 lx |
| 30% | 6,69 lx |
| 50% | 11,2 lx |

Conditions:

Number of c-planes: 4

Lux at center: 22,3 lx

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



Total lumen output:

1846 lm

Peak candela output:

36880 cd

Light quality:

CRI: 94,1

Color temperature:

5606 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10°

Target:

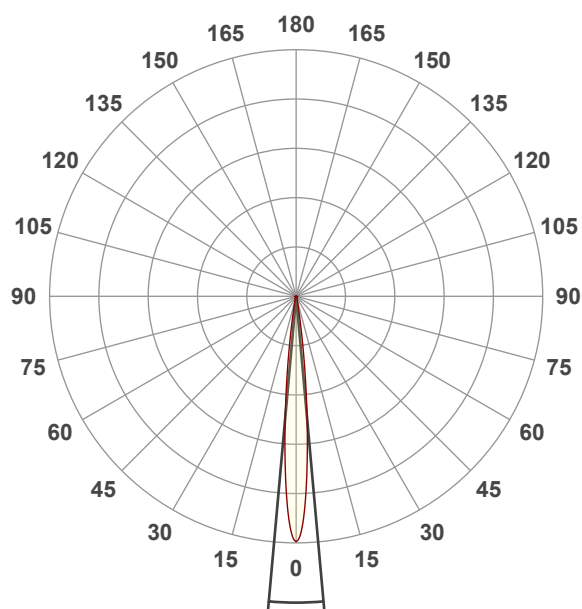
5600K

Operator:

Salvatore Giglio

Date and time:

19/02/2024 16:48:21

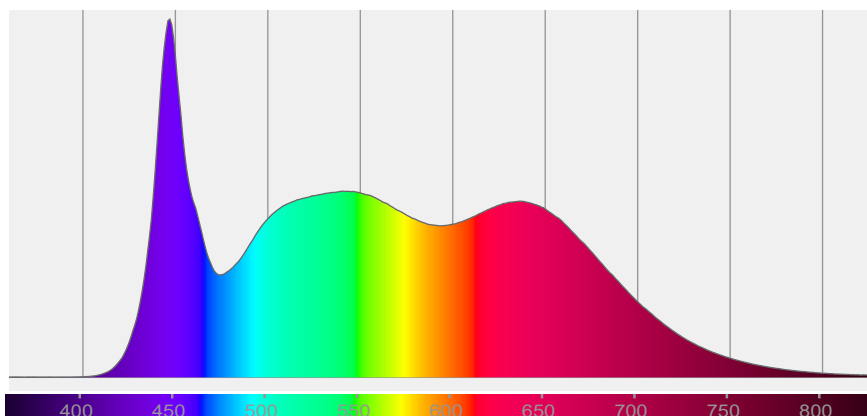


Beam angle 50%: 10,2°

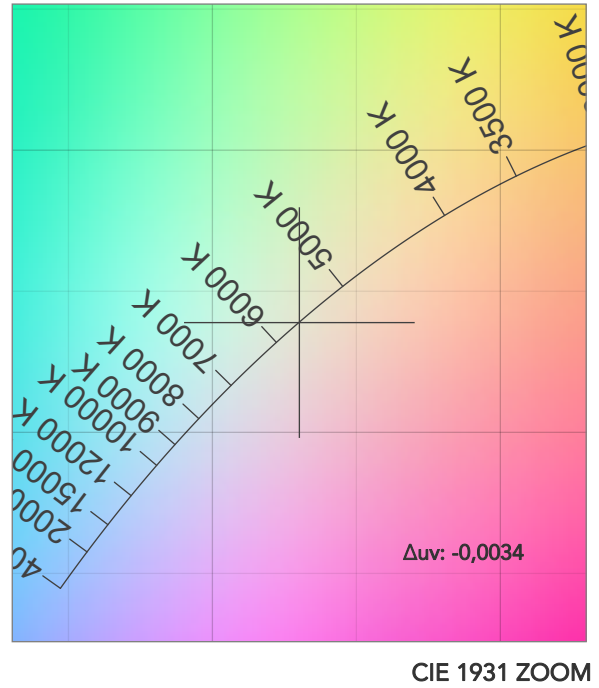
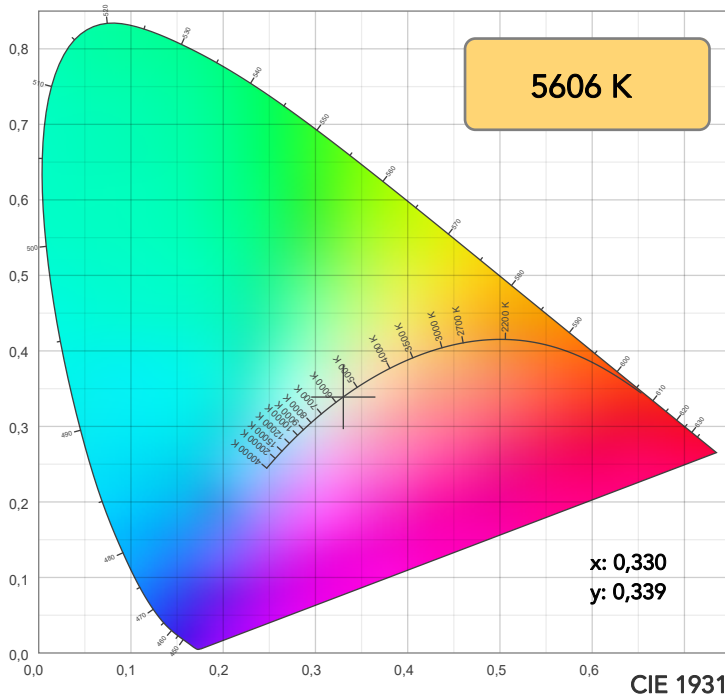
Field angle 10%: 18,6°

Cut off angle 2.5%: 27,5°

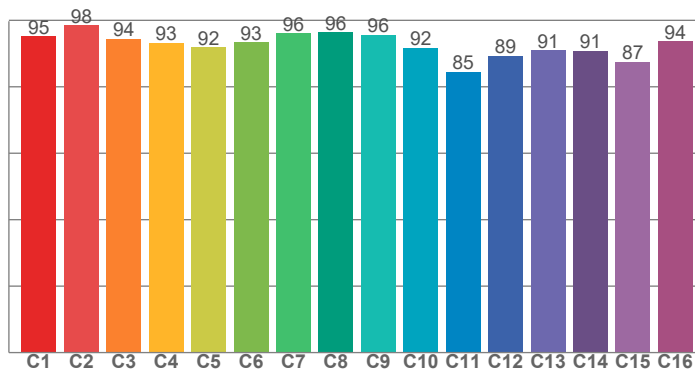
Spectra



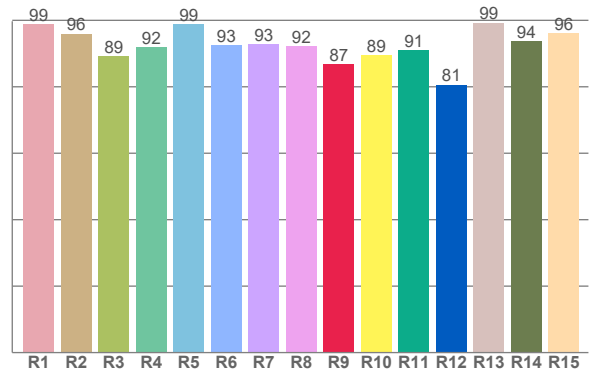
COLOR DETAILS



TM30: 92,7



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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 98,9 | 96,0 | 89,2 | 92,0 | 98,8 | 92,6 | 92,9 | 92,2 | 86,8 | 89,5 | 90,9 | 80,6 | 99,3 | 93,7 | 96,1 |

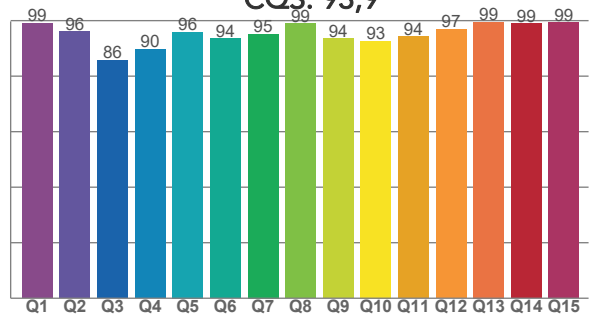
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,2 | 98,5 | 94,5 | 93,3 | 91,8 | 93,4 | 96,0 | 96,3 | 95,7 | 91,7 | 84,6 | 89,4 | 90,9 | 90,9 | 87,5 | 93,7 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 99,0 | 96,1 | 85,7 | 89,7 | 95,9 | 93,6 | 95,2 | 98,9 | 93,6 | 92,7 | 94,2 | 96,9 | 99,5 | 99,0 | 99,4 |

CQS: 93,9



COLOR PARAMETERS

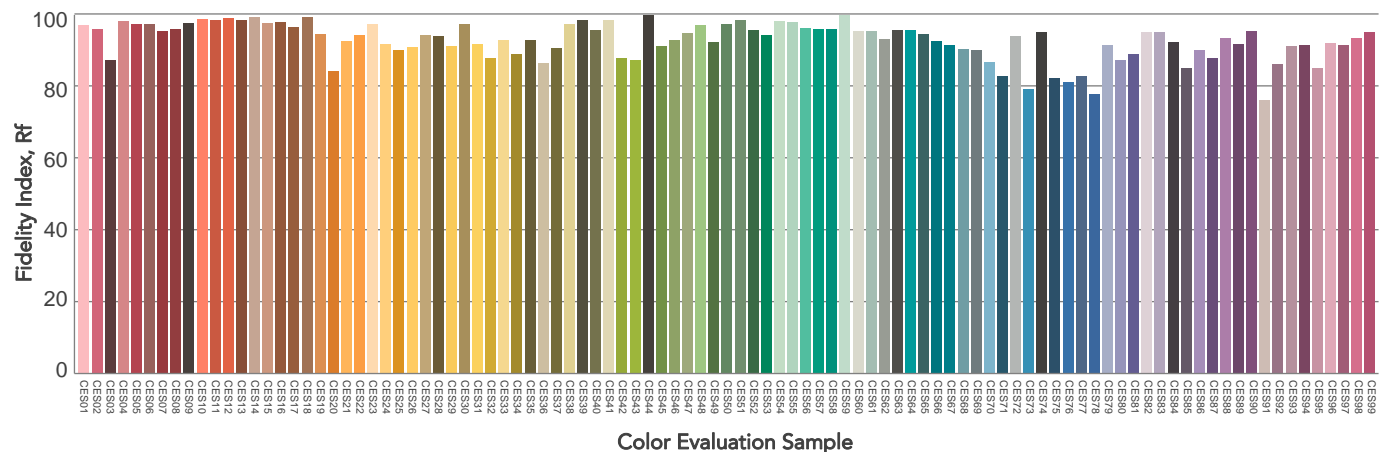
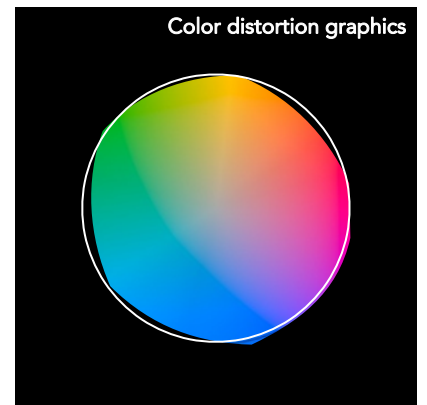
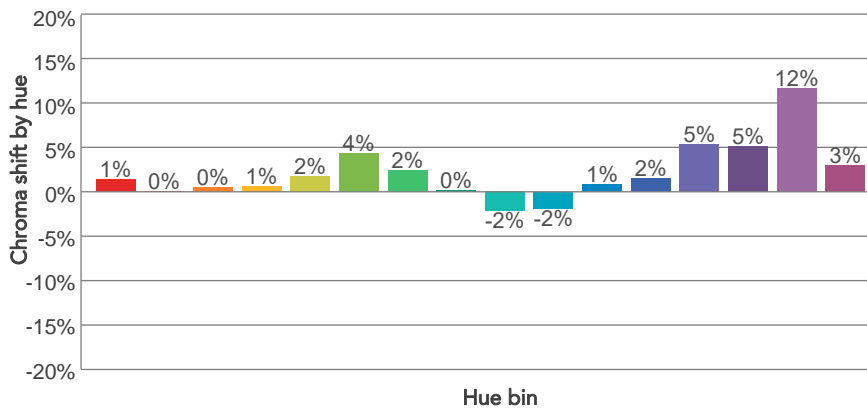
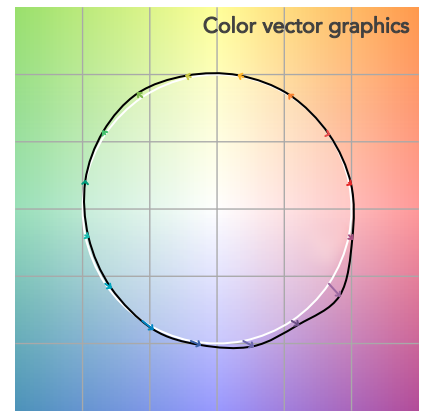
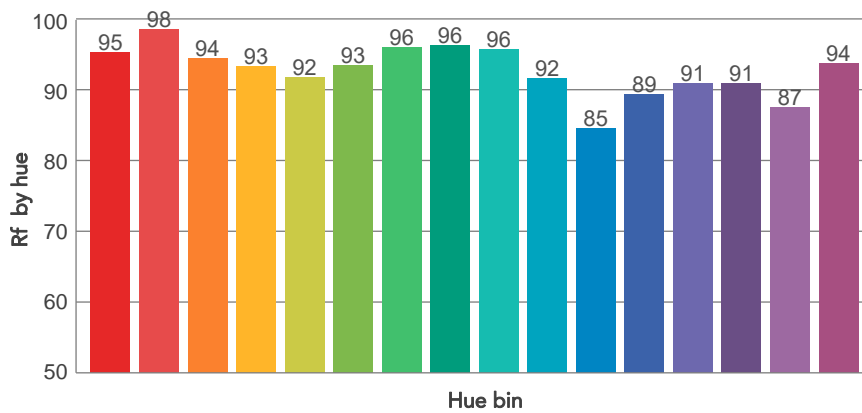
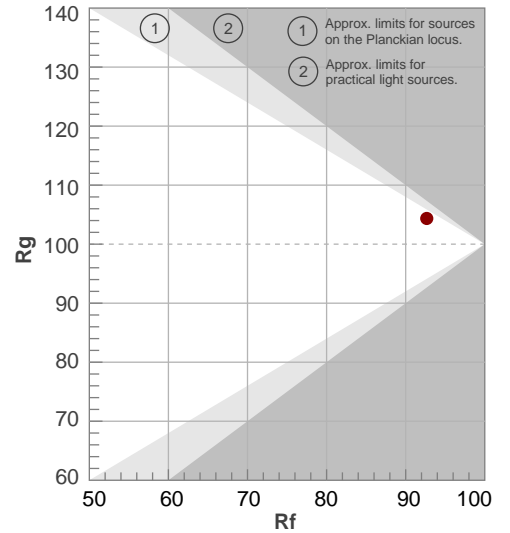
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 5606 K | 94,1 | 86,8 | 92,7 | 104,4 | 93,9 | 98 | 0,330 | 0,339 | -0,0034 |

TM30 DETAILS

Rf 92,7
Fidelity index Rf

Rg 104,4
Gammut index

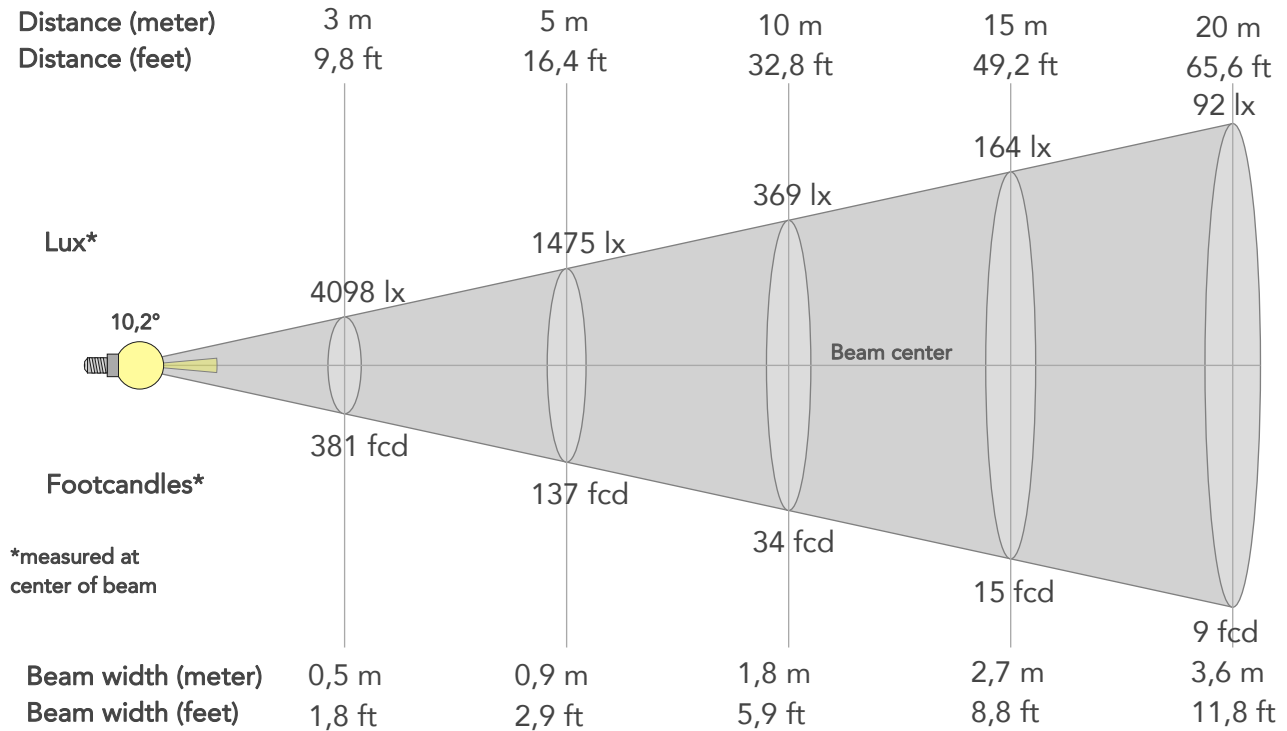
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 95 | 1% | -1% |
| 2 | 98 | 0% | 0% |
| 3 | 94 | 0% | 3% |
| 4 | 93 | 1% | 4% |
| 5 | 92 | 2% | 3% |
| 6 | 93 | 4% | 1% |
| 7 | 96 | 2% | -1% |
| 8 | 96 | 0% | -1% |
| 9 | 96 | -2% | 2% |
| 10 | 92 | -2% | 5% |
| 11 | 85 | 1% | 10% |
| 12 | 89 | 2% | 7% |
| 13 | 91 | 5% | 6% |
| 14 | 91 | 5% | 3% |
| 15 | 87 | 12% | -3% |
| 16 | 94 | 3% | -2% |



BEAM DETAILS



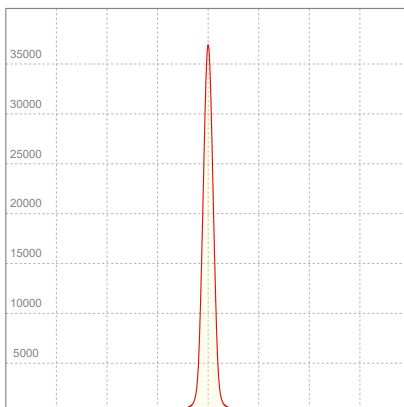
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 10,2° | 18,6° | 27,5° | 97,3% | 94,3% |



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 | 36880lx | 9220lx | 4098lx | 2305lx | 1475lx | 656lx | 369lx | 164lx | 92lx | 59lx | 41lx | 23lx | 15lx |
| Footcand. | 3426fcd | 857fcd | 381fcd | 214fcd | 137fcd | 61fcd | 34fcd | 15fcd | 9fcd | 5fcd | 4fcd | 2fcd | 1fcd |
| Beam wid. | 0,2m | 0,4m | 0,5m | 0,7m | 0,9m | 1,3m | 1,8m | 2,7m | 3,6m | 4,5m | 5,4m | 7,2m | 9m |
| Beam wid. | 0,6ft | 1,2ft | 1,8ft | 2,3ft | 2,9ft | 4,4ft | 5,9ft | 8,8ft | 11,8ft | 14,7ft | 17,6ft | 23,5ft | 29,4ft |

LINEAR DISTRIBUTION DIAGRAM

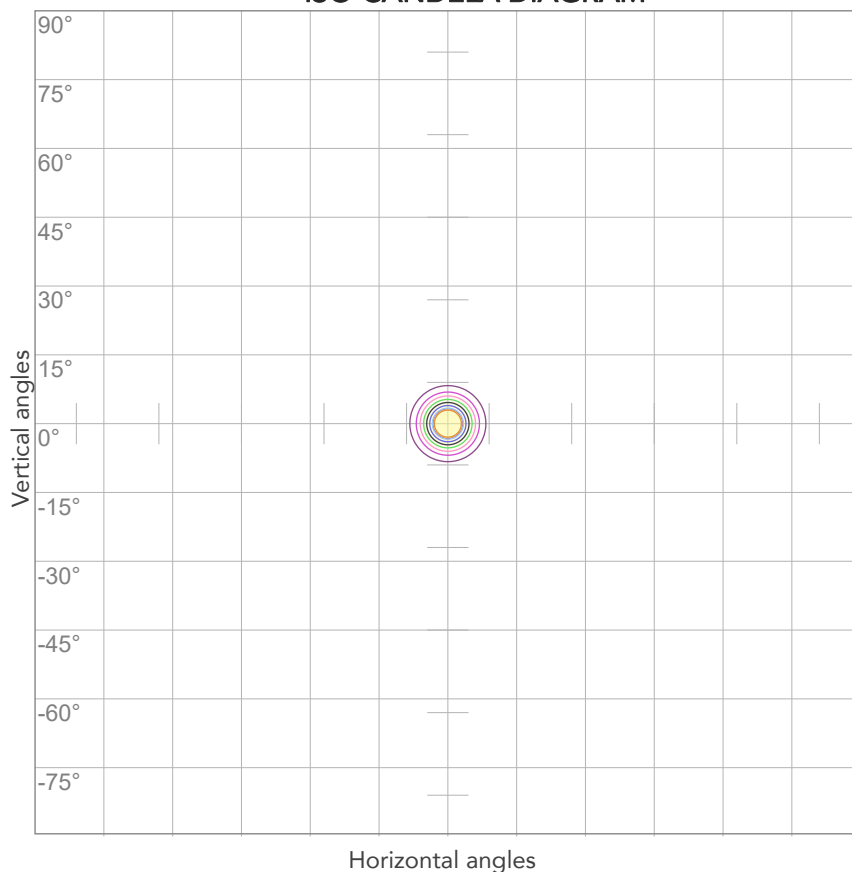


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Effeciency |
|---------------|---------------|-------------|----------|------------|
| 226V | 0,146A | 31,5W | 0,96 | 59lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



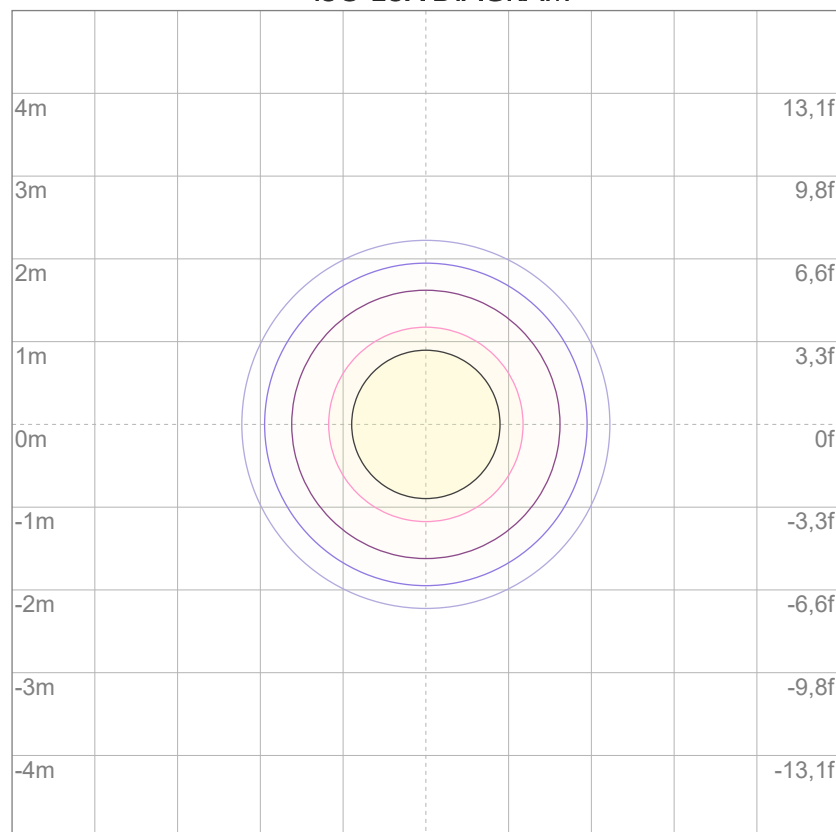
| | |
|-----|----------|
| 10% | 3688 cd |
| 20% | 7376 cd |
| 30% | 11064 cd |
| 40% | 14752 cd |
| 50% | 18440 cd |
| 60% | 22128 cd |
| 70% | 25816 cd |
| 80% | 29504 cd |

Conditions:

Number of c-planes: 2

Candela at center: 36880 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 11,1 lx |
| 5% | 18,4 lx |
| 10% | 36,9 lx |
| 30% | 111 lx |
| 50% | 184 lx |

Conditions:

Number of c-planes: 2

Lux at center: 369 lx

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



Total lumen output:

1667 lm

Peak candela output:

6827 cd

Light quality:

CRI: 94,2

Color temperature:

5607 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 20° Filter

Target:

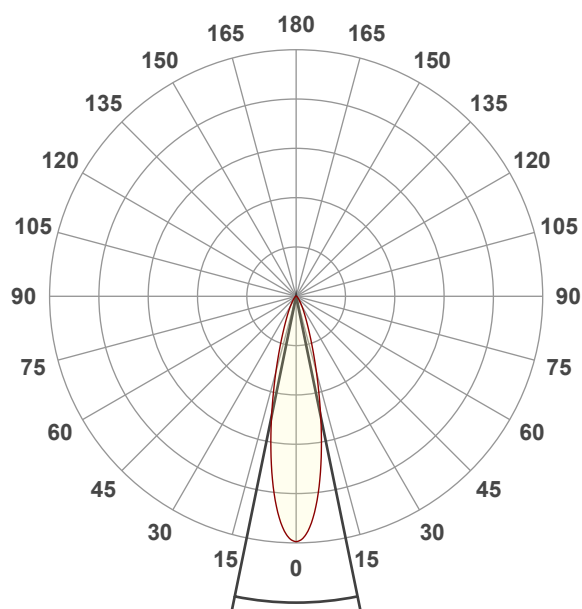
5600K

Operator:

Salvatore Giglio

Date and time:

19/02/2024 17:25:43

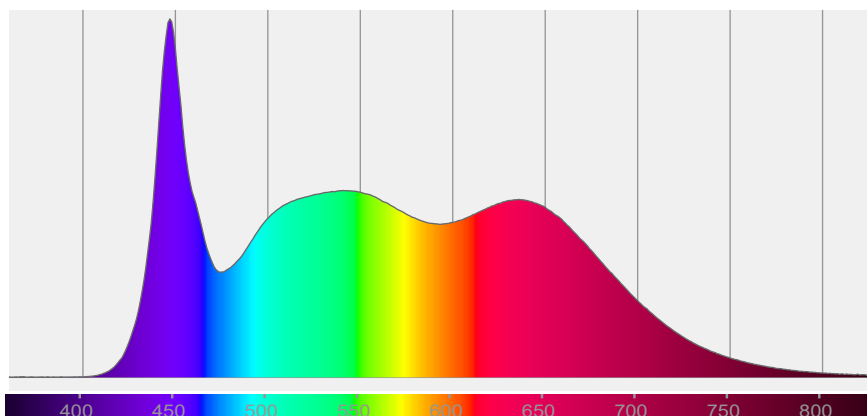


Beam angle 50%: 23,1°

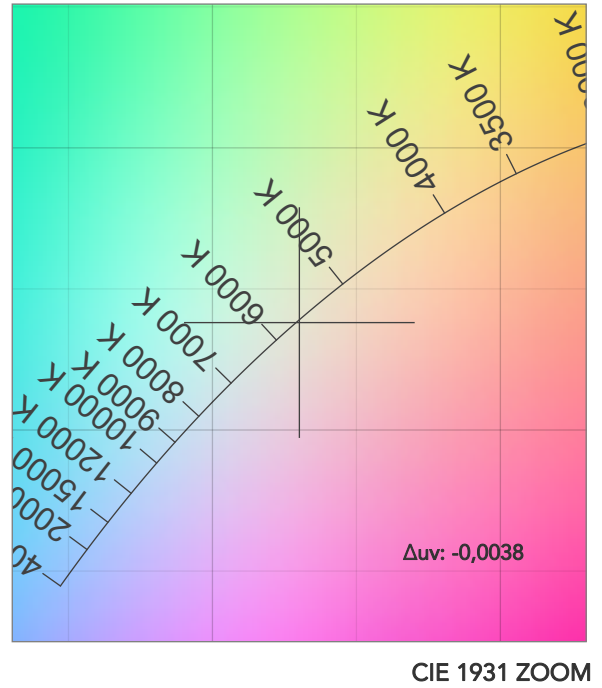
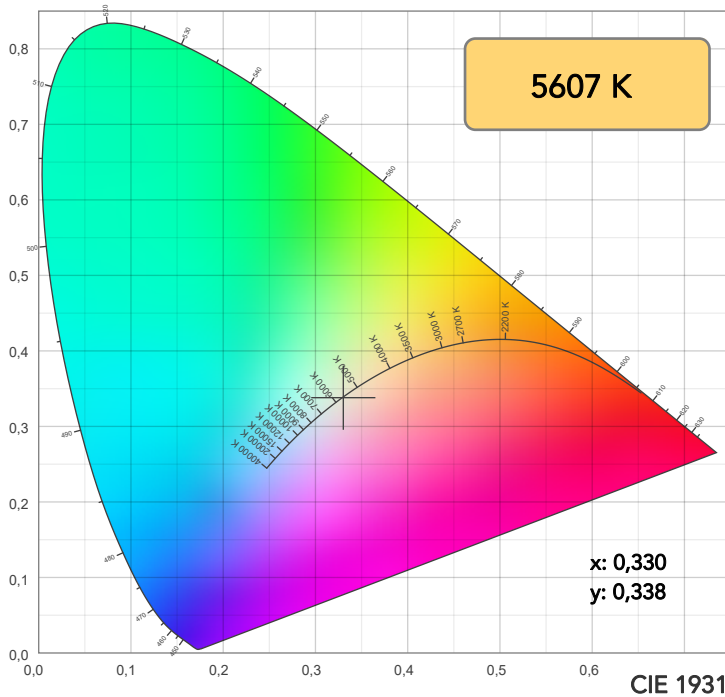
Field angle 10%: 46,8°

Cut off angle 2.5%: 72,5°

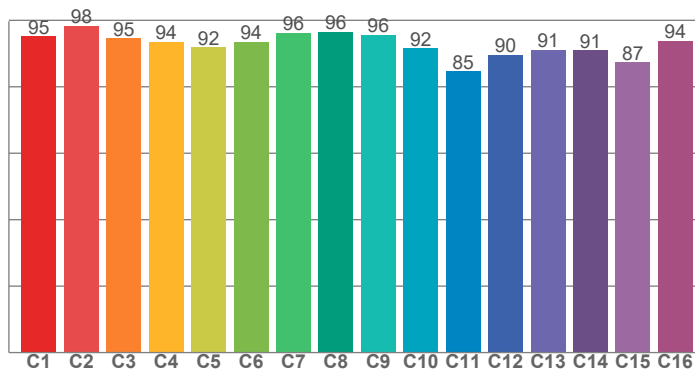
Spectra



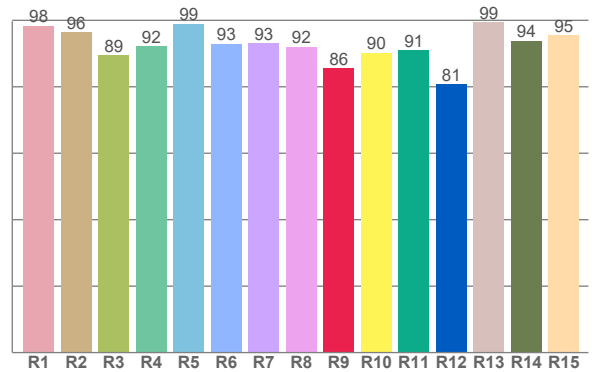
COLOR DETAILS



TM30: 92,7



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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 98,3 | 96,4 | 89,5 | 92,2 | 99,0 | 92,9 | 93,2 | 92,1 | 85,6 | 90,3 | 90,9 | 80,7 | 99,4 | 93,8 | 95,5 |

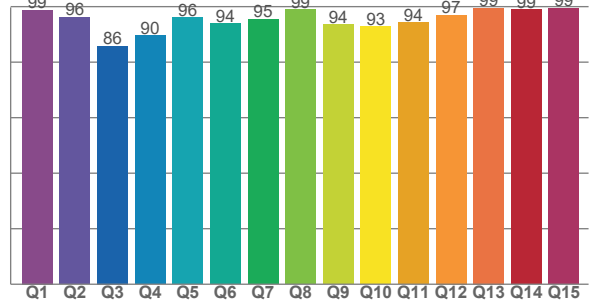
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,1 | 98,4 | 94,6 | 93,5 | 91,9 | 93,6 | 96,2 | 96,5 | 95,6 | 91,6 | 84,6 | 89,6 | 91,0 | 90,9 | 87,4 | 93,8 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 98,8 | 96,1 | 85,7 | 89,6 | 96,1 | 93,9 | 95,4 | 98,9 | 93,5 | 92,8 | 94,3 | 96,9 | 99,5 | 98,9 | 99,4 |

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 |
| 5607 K | 94,2 | 85,6 | 92,7 | 104,4 | 94,0 | 98 | 0,330 | 0,338 | -0,0038 |

TM30 DETAILS

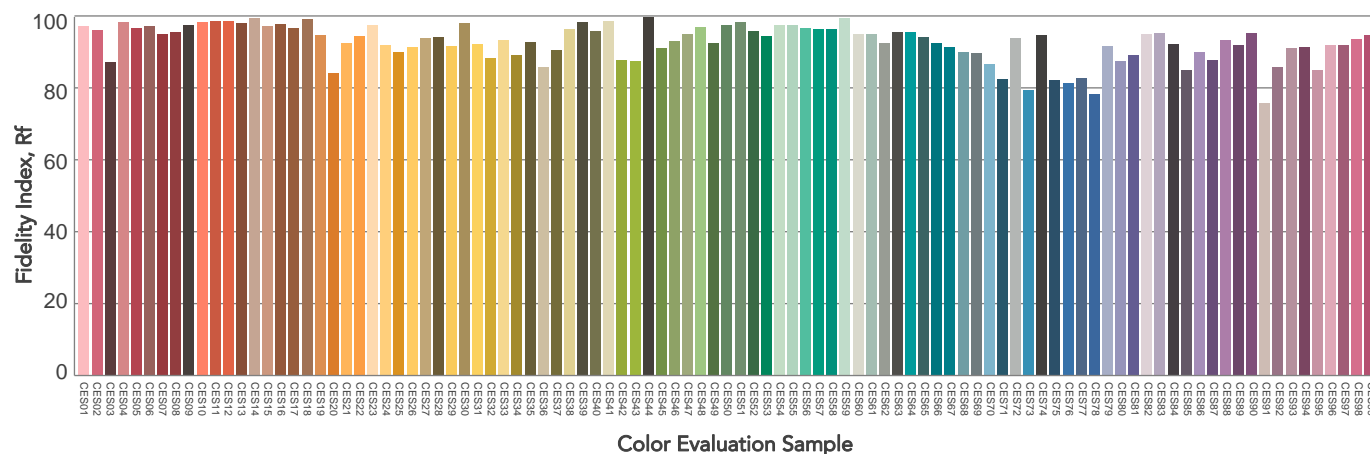
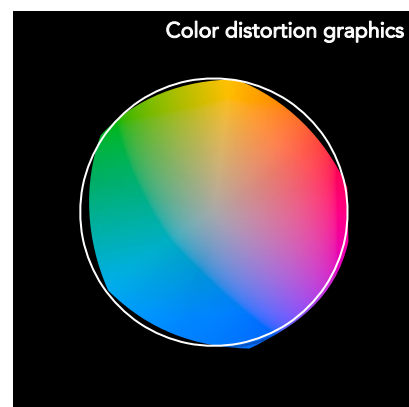
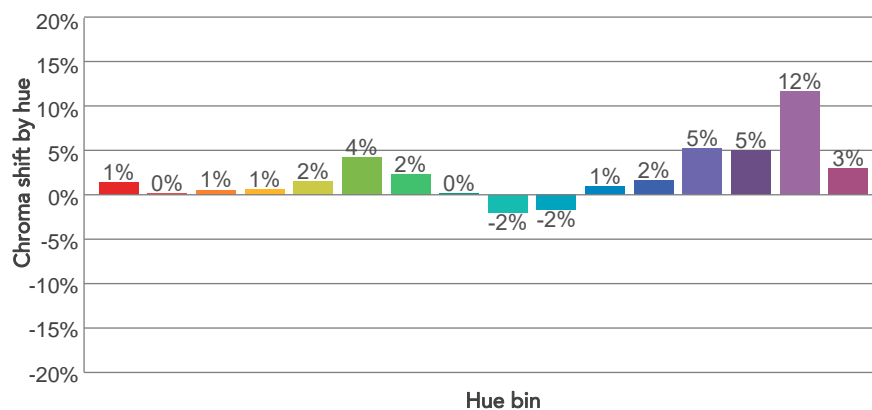
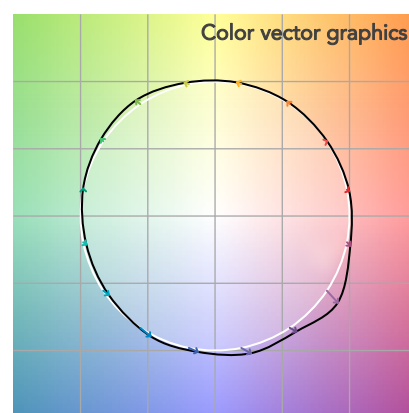
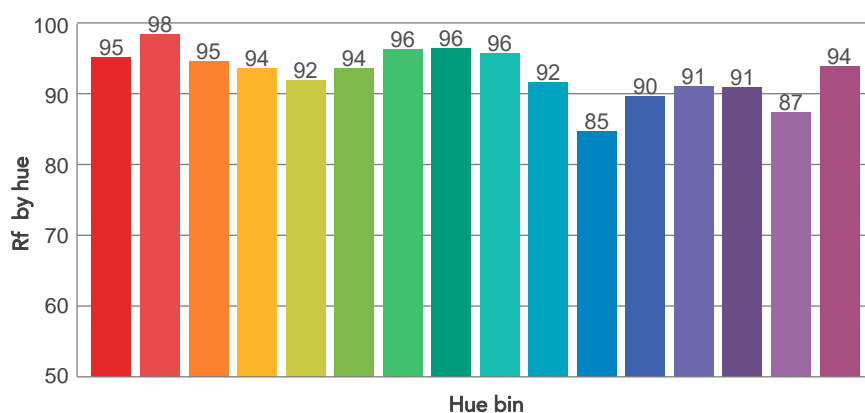
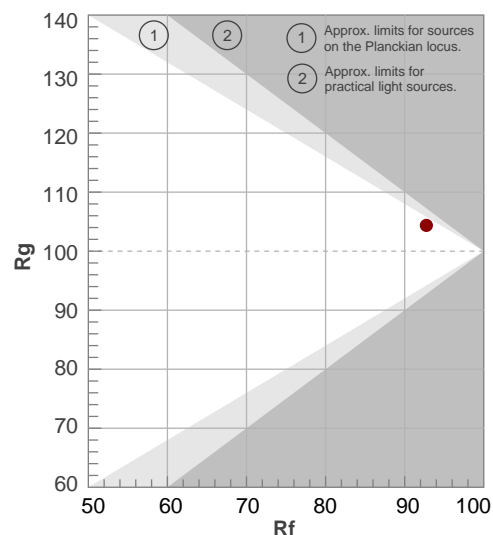
Rf 92,7

Fidelity index Rf

Rg 104,4

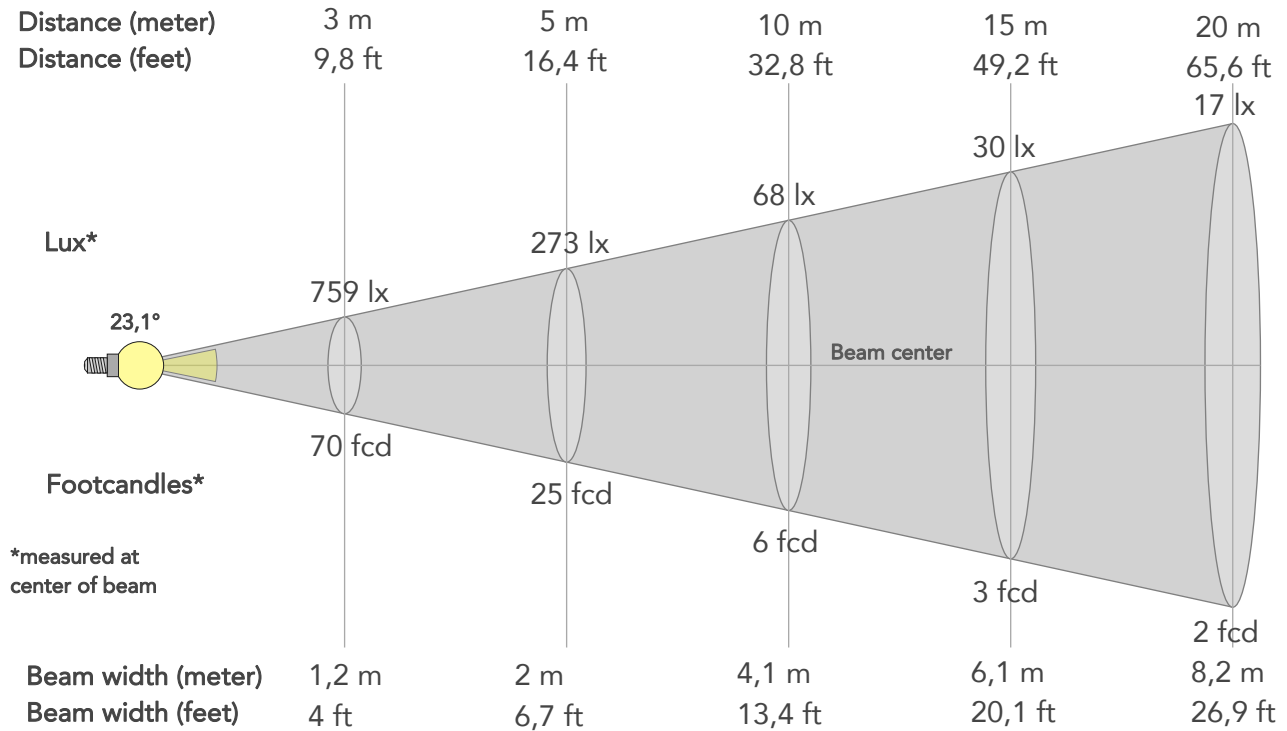
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 95 | 1% | -1% |
| 2 | 98 | 0% | 0% |
| 3 | 95 | 1% | 2% |
| 4 | 94 | 1% | 3% |
| 5 | 92 | 2% | 3% |
| 6 | 94 | 4% | 1% |
| 7 | 96 | 2% | -1% |
| 8 | 96 | 0% | -1% |
| 9 | 96 | -2% | 2% |
| 10 | 92 | -2% | 5% |
| 11 | 85 | 1% | 10% |
| 12 | 90 | 2% | 7% |
| 13 | 91 | 5% | 6% |
| 14 | 91 | 5% | 3% |
| 15 | 87 | 12% | -3% |
| 16 | 94 | 3% | -2% |



BEAM DETAILS

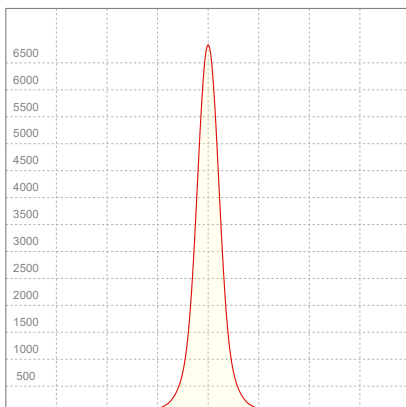
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 23,1° | 46,8° | 72,5° | 97,3% | 93,0% |



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 | 6827lx | 1707lx | 759lx | 427lx | 273lx | 121lx | 68lx | 30lx | 17lx | 11lx | 8lx | 4lx | 3lx |
| Footcand. | 634fcd | 159fcd | 70fcd | 40fcd | 25fcd | 11fcd | 6fcd | 3fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd |
| Beam wid. | 0,4m | 0,8m | 1,2m | 1,6m | 2m | 3,1m | 4,1m | 6,1m | 8,2m | 10,2m | 12,3m | 16,4m | 20,5m |
| Beam wid. | 1,4ft | 2,7ft | 4ft | 5,4ft | 6,7ft | 10,1ft | 13,4ft | 20,1ft | 26,9ft | 33,6ft | 40,3ft | 53,7ft | 67,1ft |

LINEAR DISTRIBUTION DIAGRAM

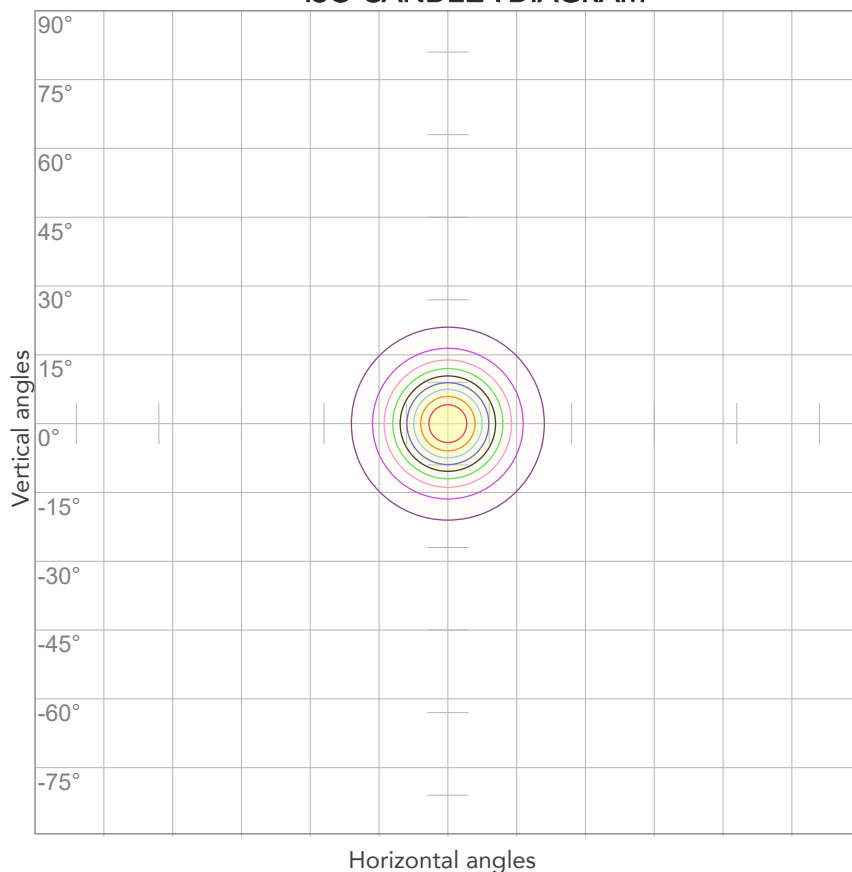


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Efficiency |
|---------------|---------------|-------------|----------|------------|
| 226V | 0,145A | 31,2W | 0,95 | 53lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



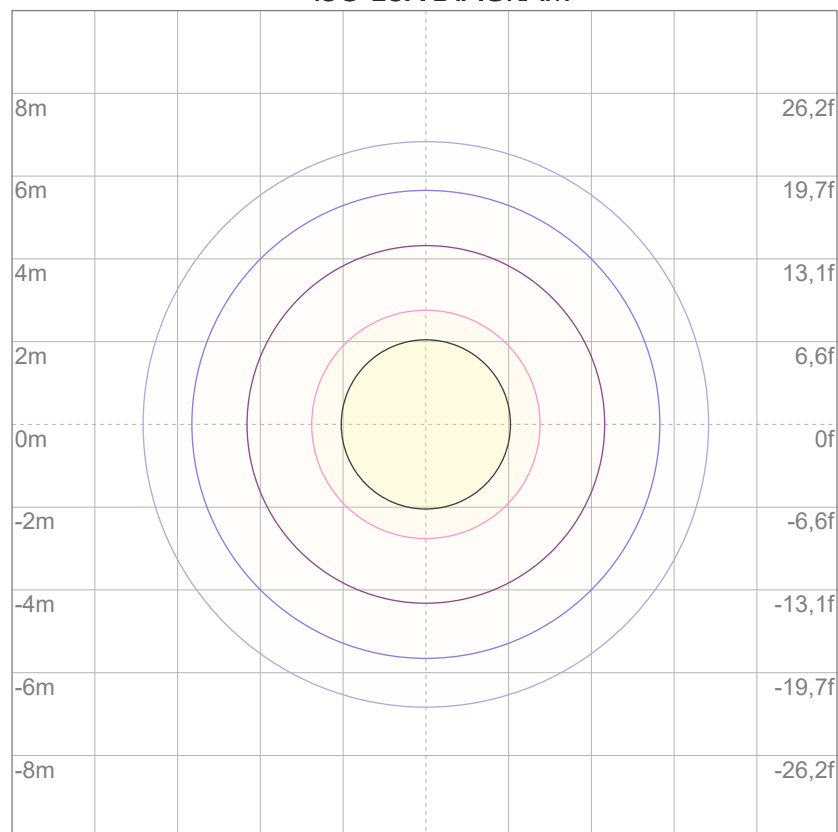
| | |
|-----|---------|
| 10% | 683 cd |
| 20% | 1365 cd |
| 30% | 2048 cd |
| 40% | 2731 cd |
| 50% | 3413 cd |
| 60% | 4096 cd |
| 70% | 4779 cd |
| 80% | 5461 cd |

Conditions:

Number of c-planes: 2

Candela at center: 6827 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 2,05 lx |
| 5% | 3,41 lx |
| 10% | 6,83 lx |
| 30% | 20,5 lx |
| 50% | 34,1 lx |

Conditions:

Number of c-planes: 2

Lux at center: 68,3 lx

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



Total lumen output:

1620 lm

Peak candela output:

2004 cd

Light quality:

CRI: 94,2

Color temperature:

5631 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 40° Filter

Target:

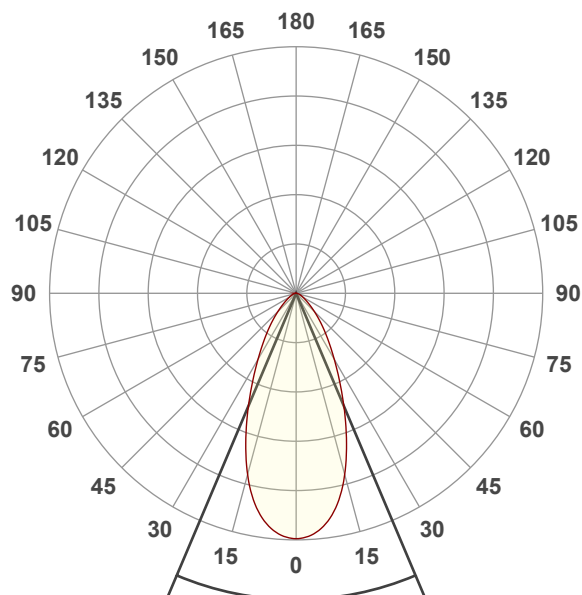
5600K

Operator:

Salvatore Giglio

Date and time:

19/02/2024 17:37:23

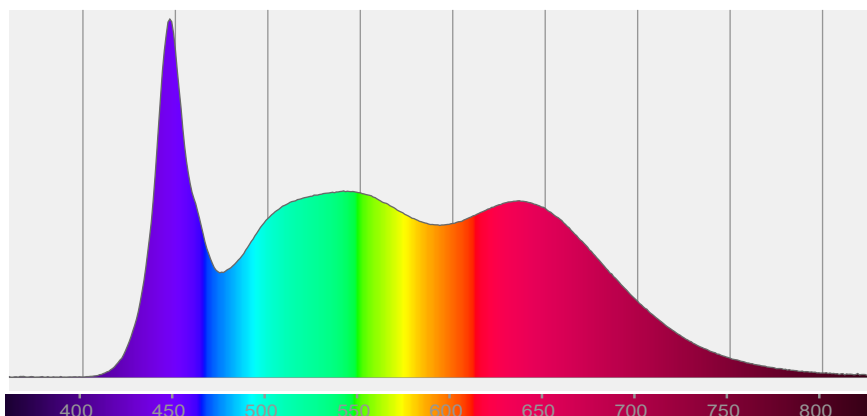


Beam angle 50%: 45,9°

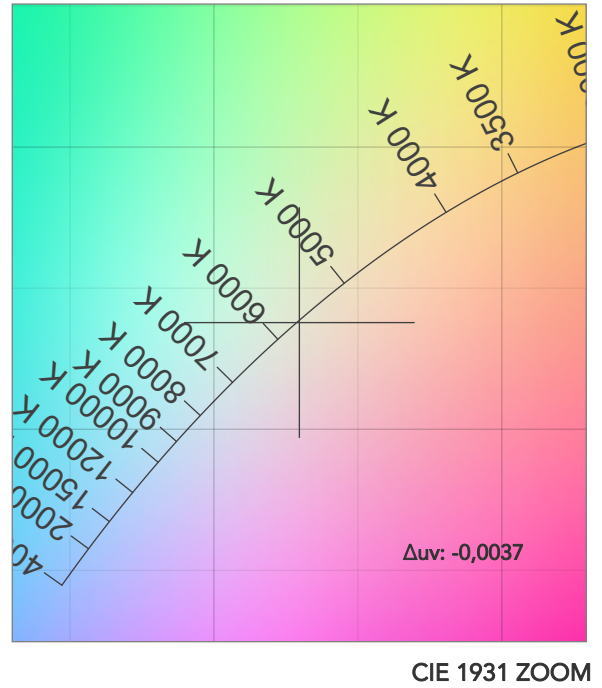
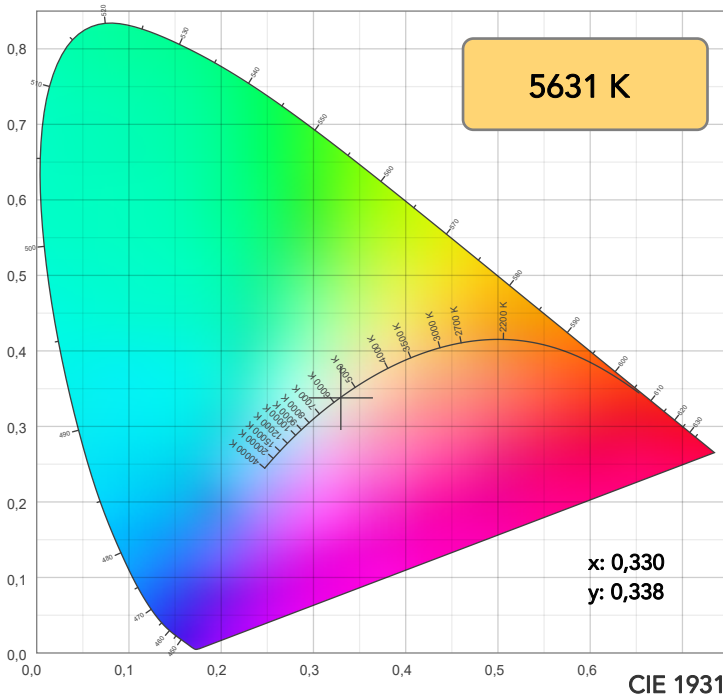
Field angle 10%: 91,3°

Cut off angle 2.5%: 128,2°

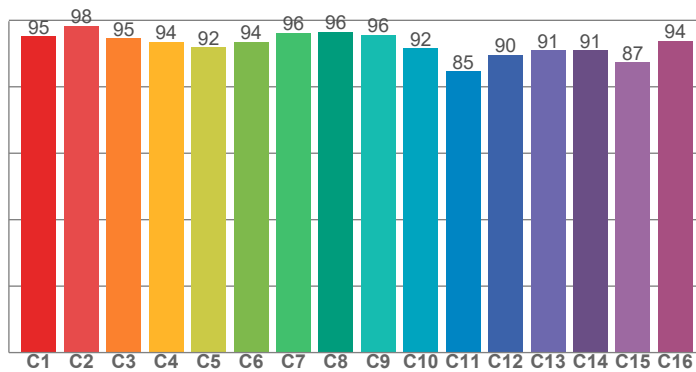
Spectra



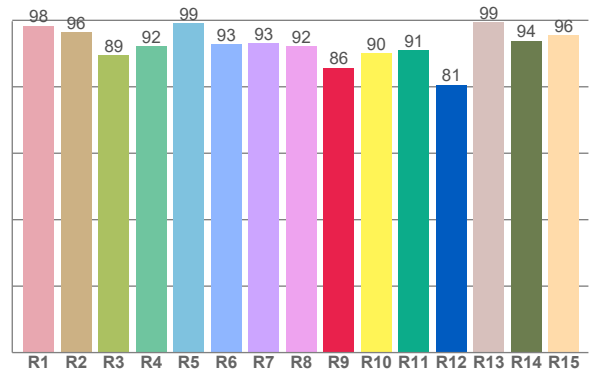
COLOR DETAILS



TM30: 92,7



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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 98,4 | 96,3 | 89,4 | 92,2 | 99,0 | 92,8 | 93,1 | 92,1 | 85,7 | 90,2 | 90,9 | 80,6 | 99,4 | 93,8 | 95,6 |

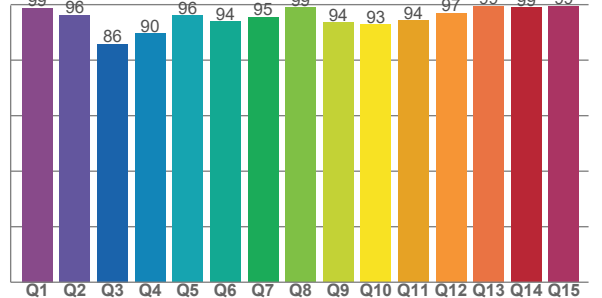
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,1 | 98,4 | 94,6 | 93,5 | 91,9 | 93,6 | 96,2 | 96,5 | 95,6 | 91,6 | 84,6 | 89,6 | 91,0 | 90,9 | 87,4 | 93,8 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 98,8 | 96,1 | 85,8 | 89,6 | 96,1 | 93,9 | 95,4 | 98,9 | 93,5 | 92,8 | 94,3 | 96,9 | 99,5 | 98,9 | 99,4 |

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 |
| 5631 K | 94,2 | 85,7 | 92,7 | 104,3 | 94,0 | 98 | 0,330 | 0,338 | -0,0037 |

TM30 DETAILS

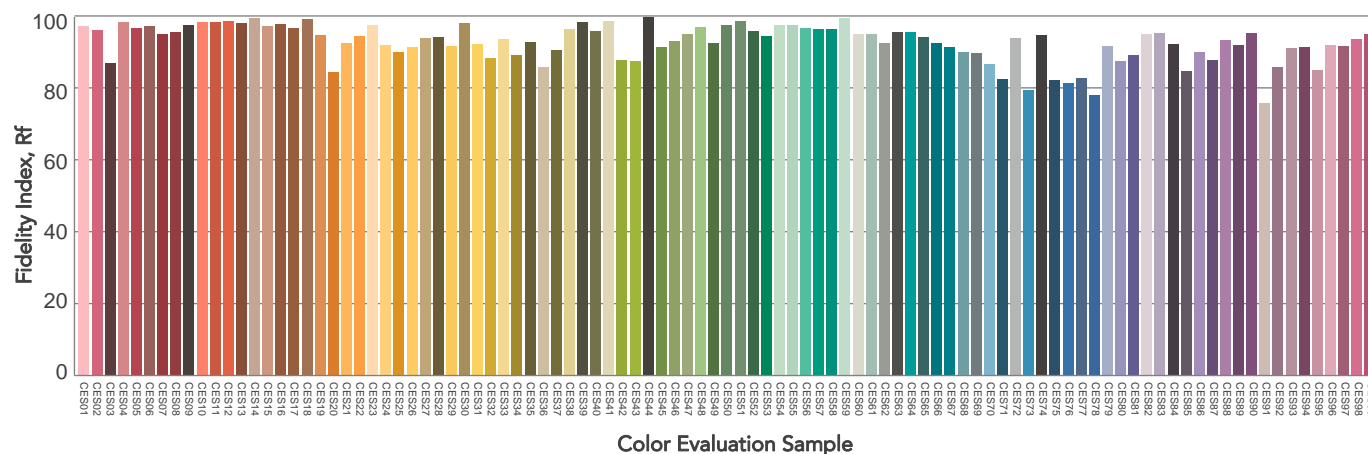
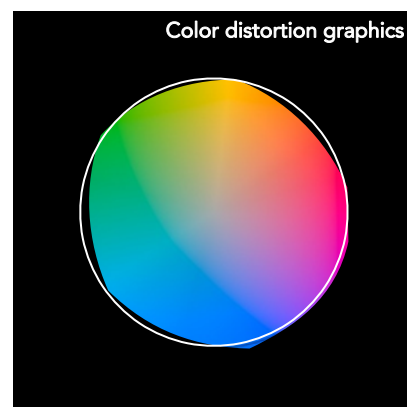
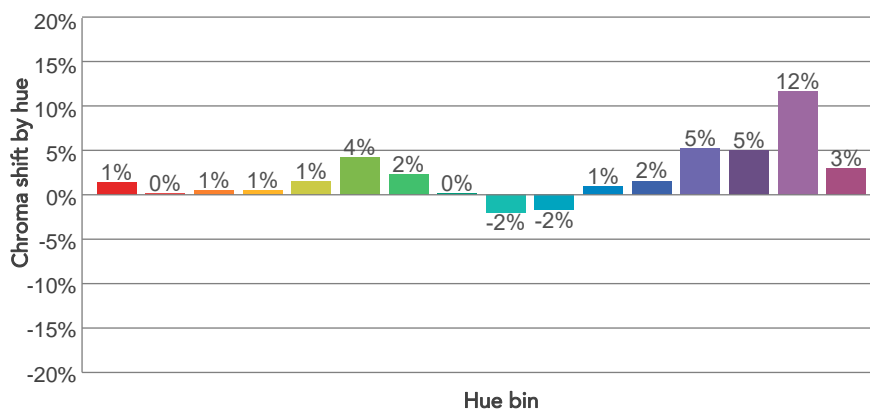
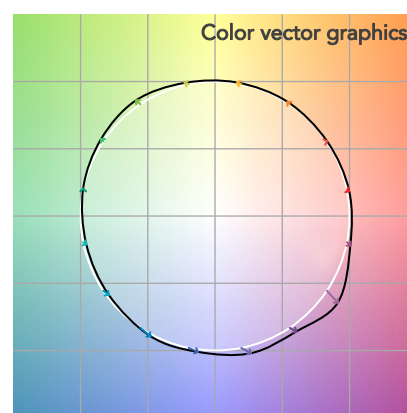
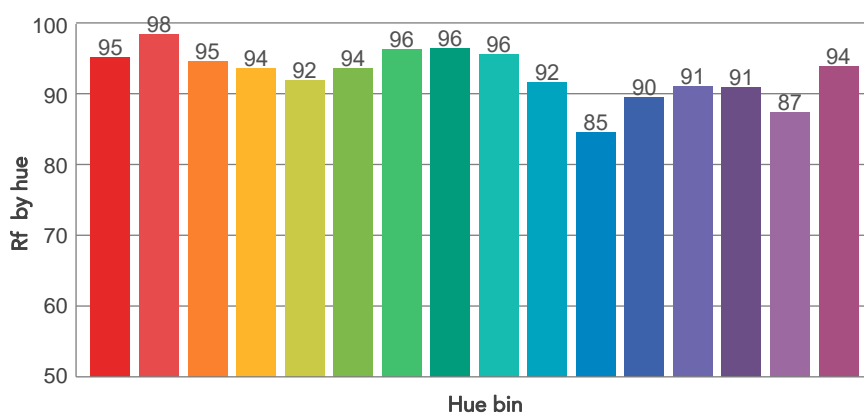
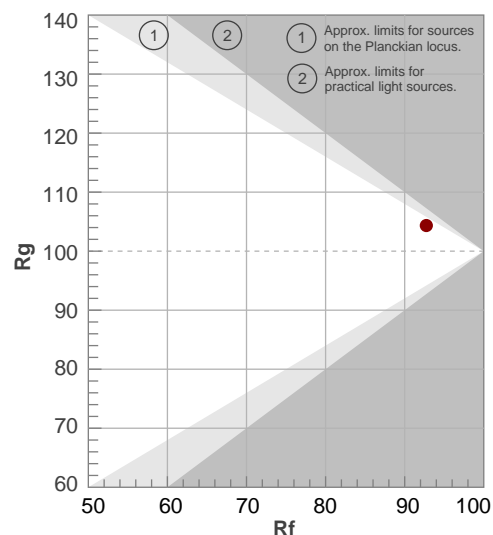
Rf 92,7

Fidelity index R_f

Rg 104,3

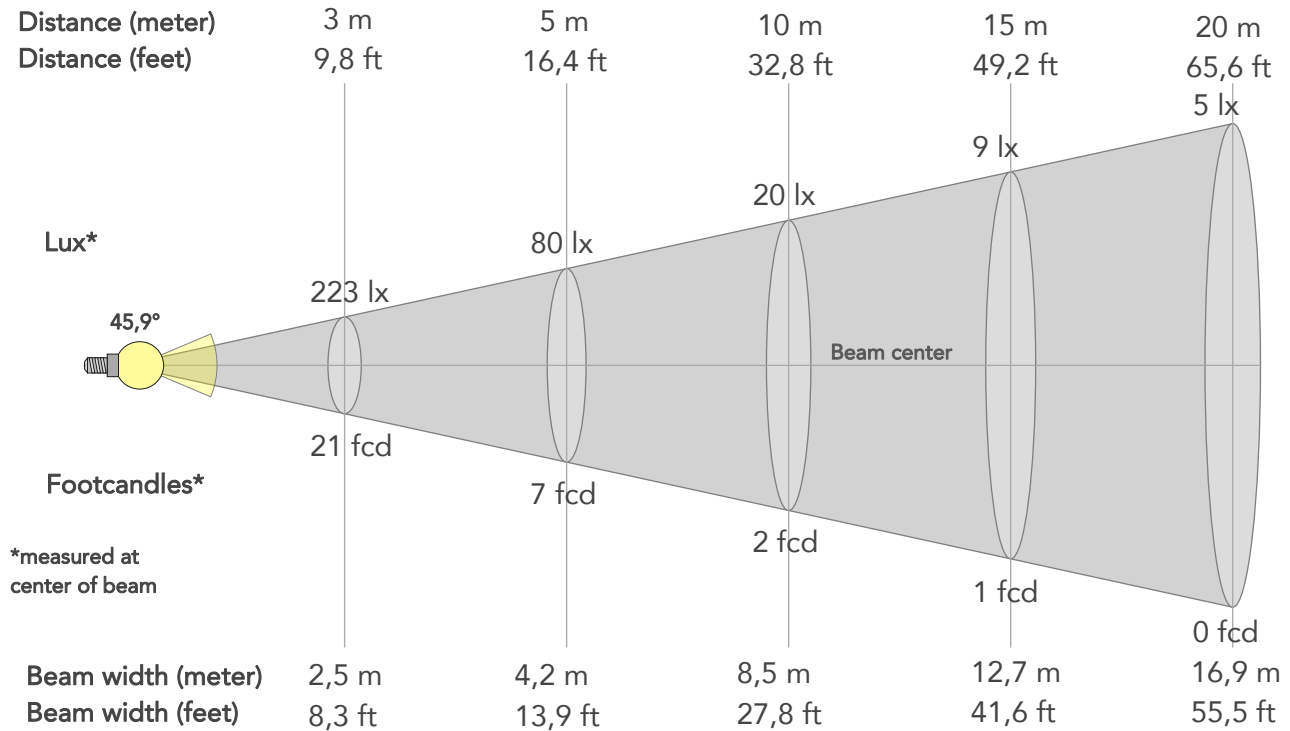
Gammut index

| | | Graphic shifts (%) | |
|---------|-------|--------------------|-----|
| Hue Bin | R_f | Chroma | Hue |
| 1 | 95 | 1% | -1% |
| 2 | 98 | 0% | 0% |
| 3 | 95 | 1% | 2% |
| 4 | 94 | 1% | 3% |
| 5 | 92 | 1% | 3% |
| 6 | 94 | 4% | 1% |
| 7 | 96 | 2% | -1% |
| 8 | 96 | 0% | -1% |
| 9 | 96 | -2% | 2% |
| 10 | 92 | -2% | 5% |
| 11 | 85 | 1% | 10% |
| 12 | 90 | 2% | 7% |
| 13 | 91 | 5% | 6% |
| 14 | 91 | 5% | 3% |
| 15 | 87 | 12% | -3% |
| 16 | 94 | 3% | -2% |



BEAM DETAILS

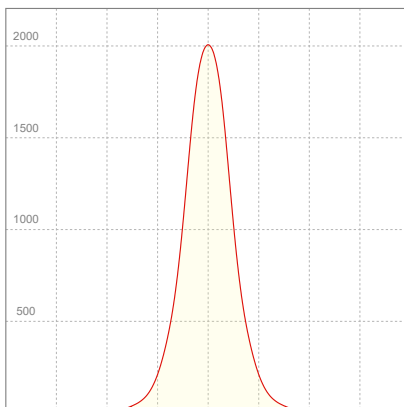
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 45,9° | 91,3° | 128,2° | 94,9% | 85,3% |



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 | 2004lx | 501lx | 223lx | 125lx | 80lx | 36lx | 20lx | 9lx | 5lx | 3lx | 2lx | 1lx | 1lx |
| Footcand. | 186fcd | 47fcd | 21fcd | 12fcd | 7fcd | 3fcd | 2fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,8m | 1,7m | 2,5m | 3,4m | 4,2m | 6,3m | 8,5m | 12,7m | 16,9m | 21,2m | 25,4m | 33,9m | 42,3m |
| Beam wid. | 2,8ft | 5,6ft | 8,3ft | 11,1ft | 13,9ft | 20,8ft | 27,8ft | 41,6ft | 55,5ft | 69,4ft | 83,3ft | 111,1ft | 138,8ft |

LINEAR DISTRIBUTION DIAGRAM

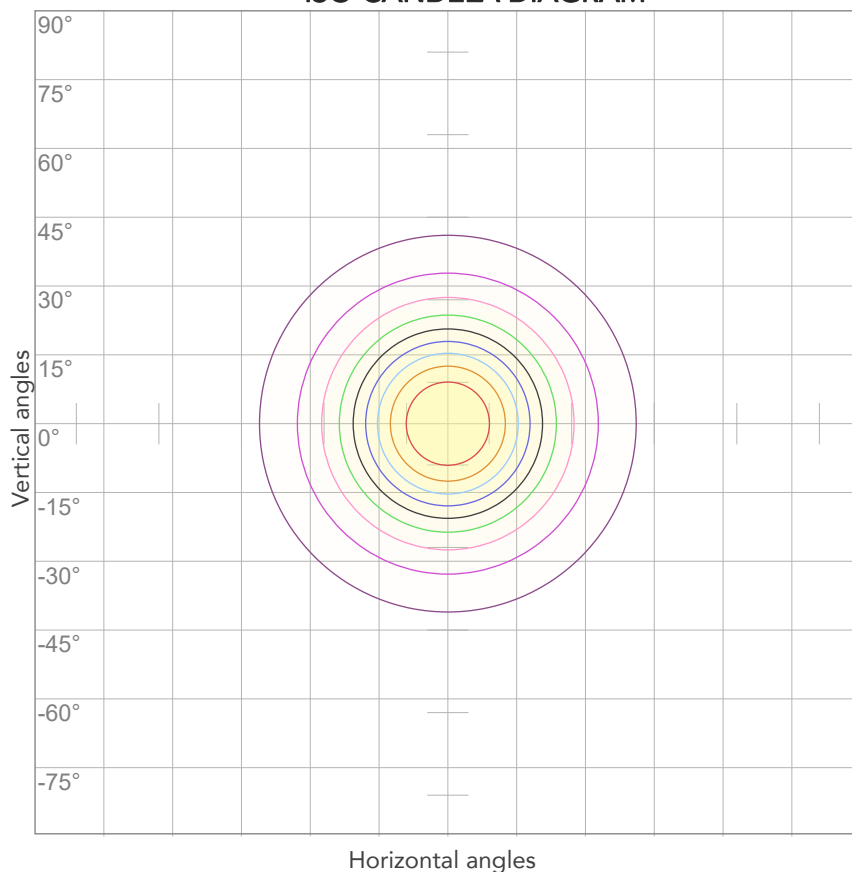


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Efficiency |
|---------------|---------------|-------------|----------|------------|
| 226V | 0,145A | 31,3W | 0,95 | 52lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



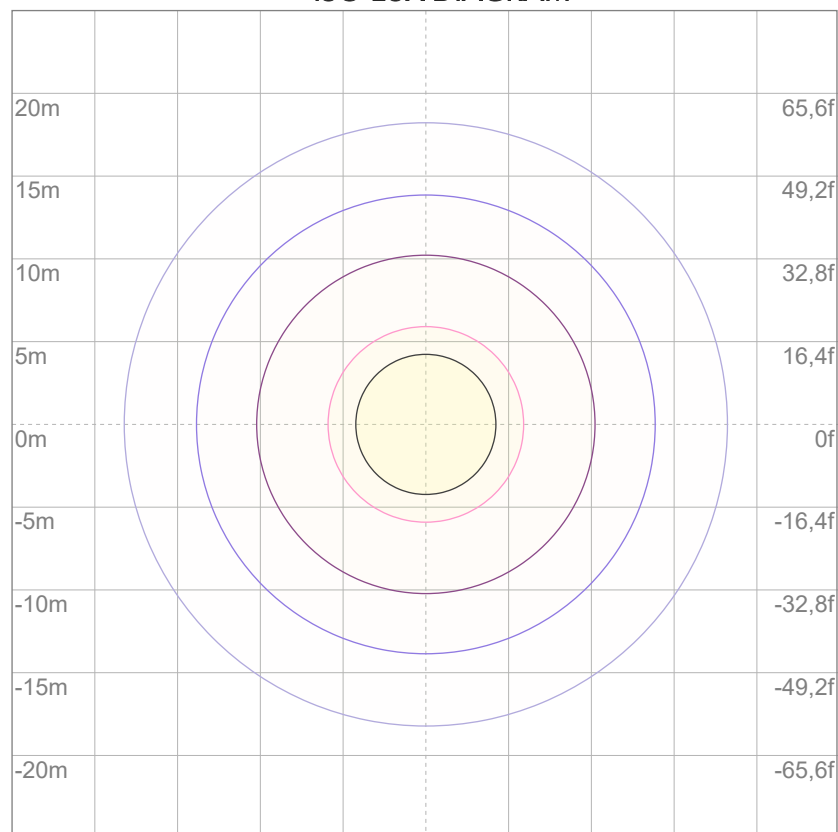
| | |
|-----|---------|
| 10% | 200 cd |
| 20% | 401 cd |
| 30% | 601 cd |
| 40% | 802 cd |
| 50% | 1002 cd |
| 60% | 1202 cd |
| 70% | 1403 cd |
| 80% | 1603 cd |

Conditions:

Number of c-planes: 2

Candela at center: 2004 cd

ISO LUX DIAGRAM



| | |
|-----|----------|
| 3% | 0,601 lx |
| 5% | 1,00 lx |
| 10% | 2,00 lx |
| 30% | 6,01 lx |
| 50% | 10,0 lx |

Conditions:

Number of c-planes: 2

Lux at center: 20,0 lx

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



Total lumen output:

1608 lm

Peak candela output:

1474 cd

Light quality:

CRI: 94,1

Color temperature:

5634 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 60° Filter

Target:

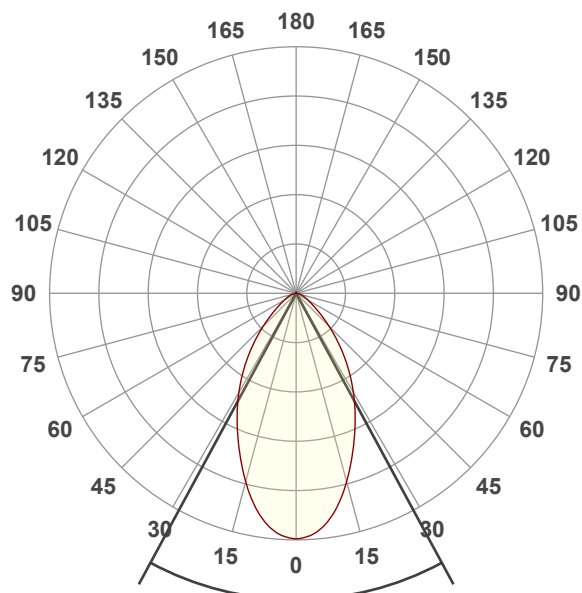
5600K

Operator:

Salvatore Giglio

Date and time:

20/02/2024 09:27:37

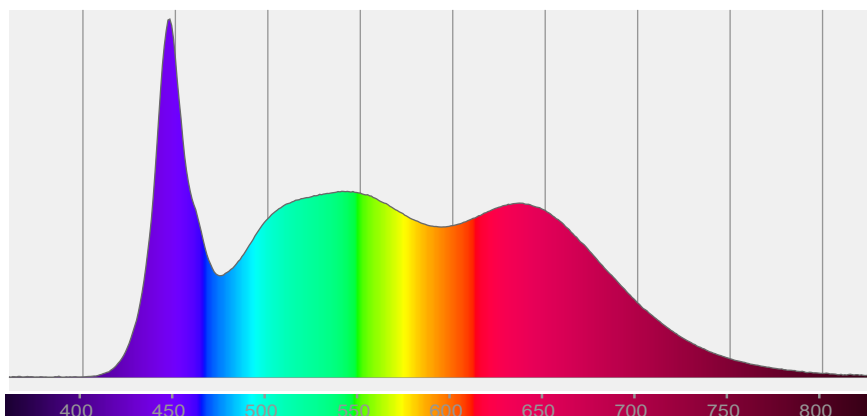


Beam angle 50%: 56,8°

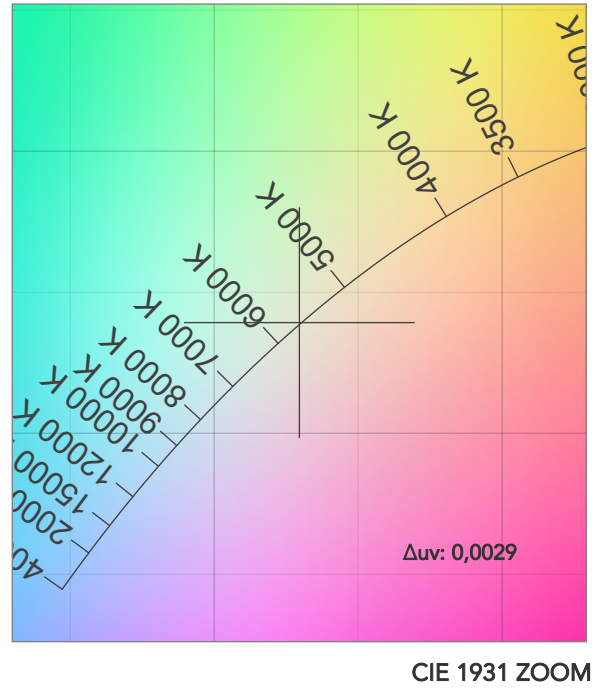
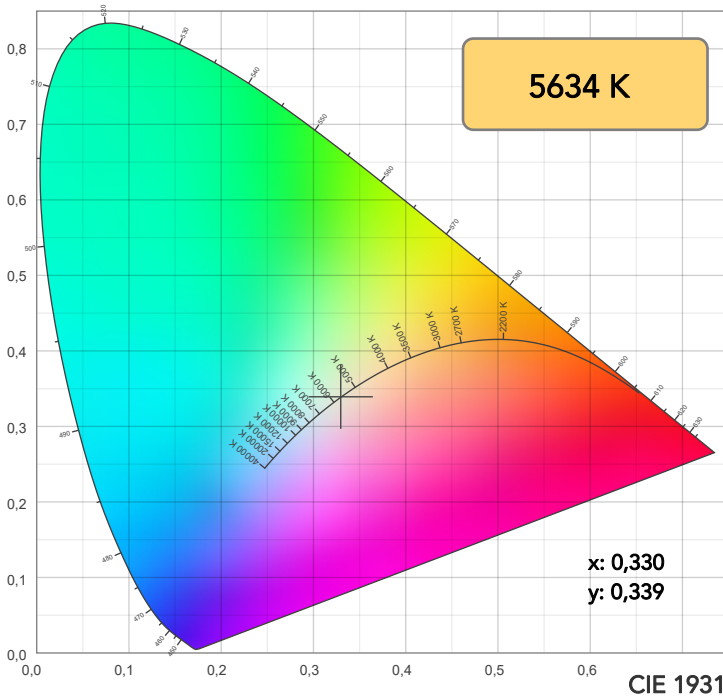
Field angle 10%: 105,3°

Cut off angle 2.5%: 142,7°

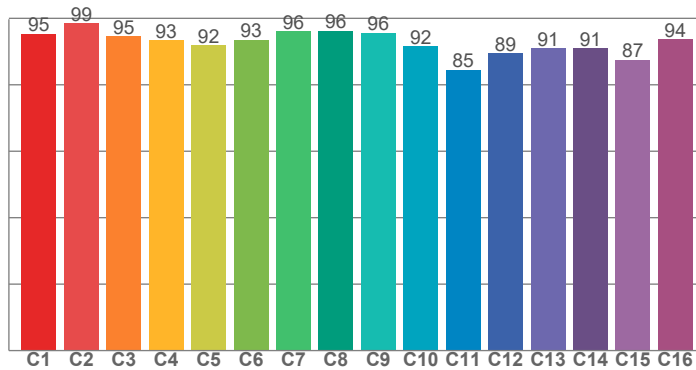
Spectra



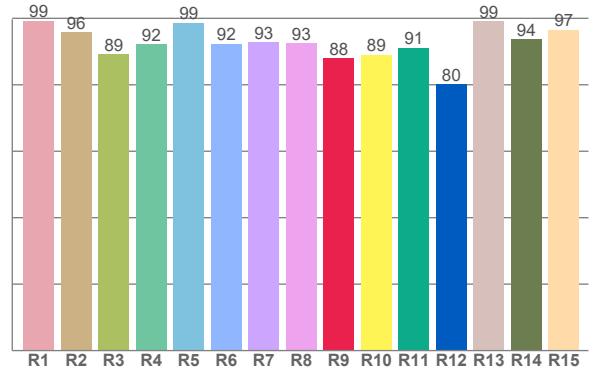
COLOR DETAILS



TM30: 92,7



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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 99,3 | 95,8 | 89,2 | 92,1 | 98,7 | 92,3 | 92,9 | 92,5 | 87,9 | 89,0 | 91,1 | 80,2 | 99,1 | 93,8 | 96,6 |

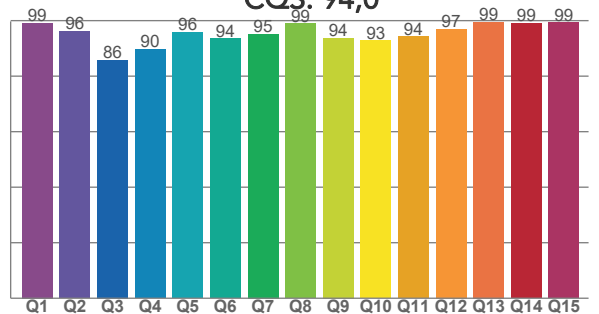
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,3 | 98,5 | 94,6 | 93,3 | 91,9 | 93,5 | 96,1 | 96,3 | 95,6 | 91,6 | 84,5 | 89,4 | 91,0 | 91,0 | 87,5 | 93,7 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 99,1 | 96,1 | 85,8 | 89,7 | 95,8 | 93,6 | 95,1 | 99,0 | 93,7 | 92,8 | 94,3 | 97,0 | 99,5 | 99,0 | 99,4 |

CQS: 94,0



COLOR PARAMETERS

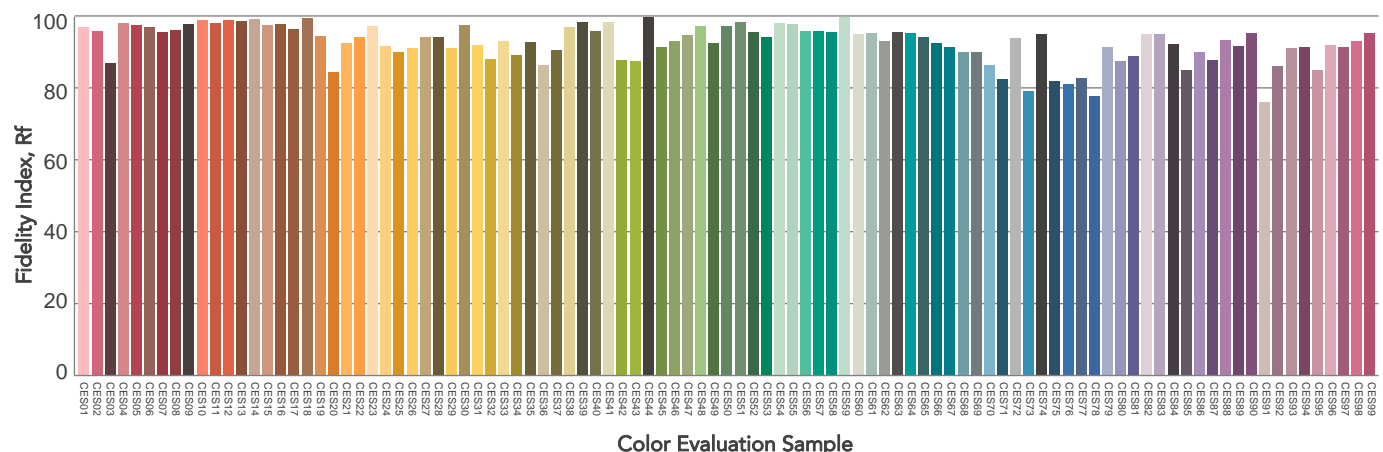
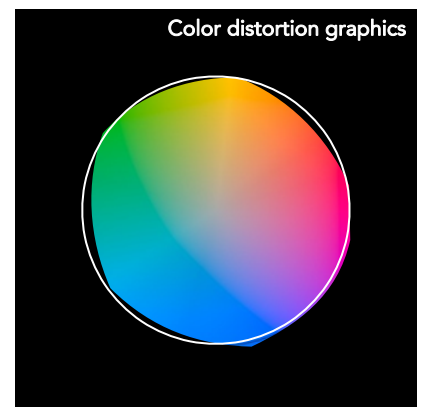
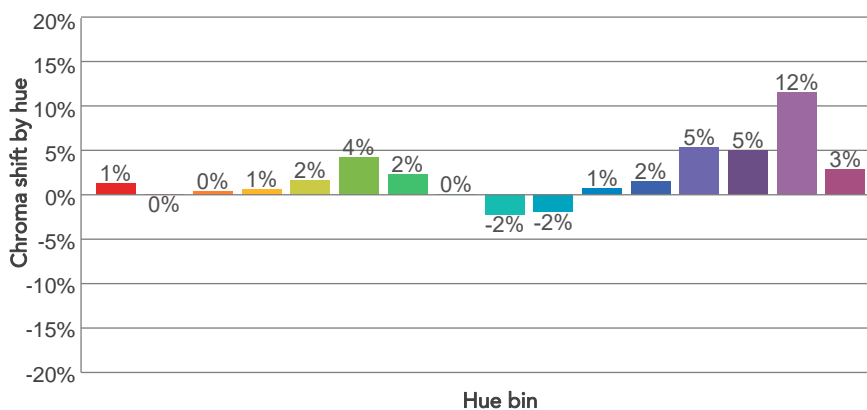
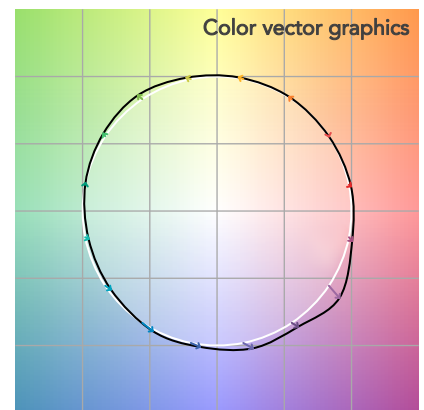
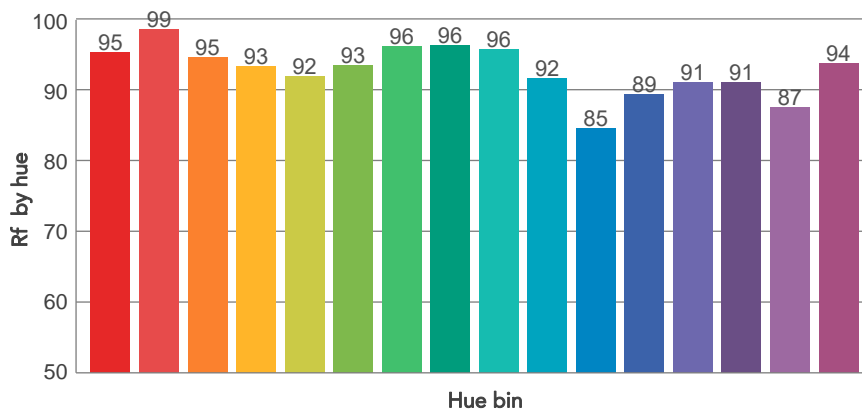
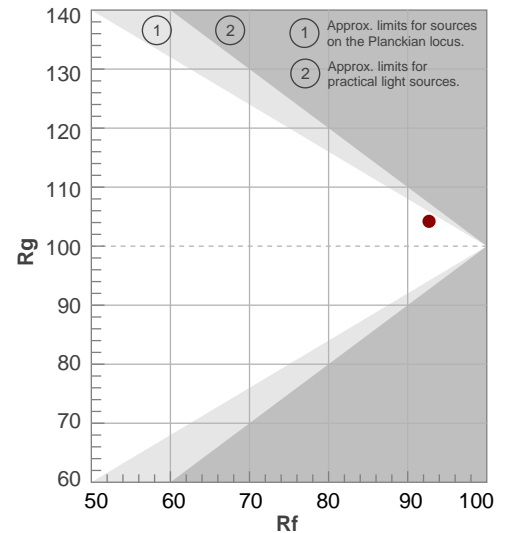
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 5634 K | 94,1 | 87,9 | 92,7 | 104,2 | 94,0 | 98 | 0,330 | 0,339 | 0,0029 |

TM30 DETAILS

Rf 92,7
Fidelity index Rf

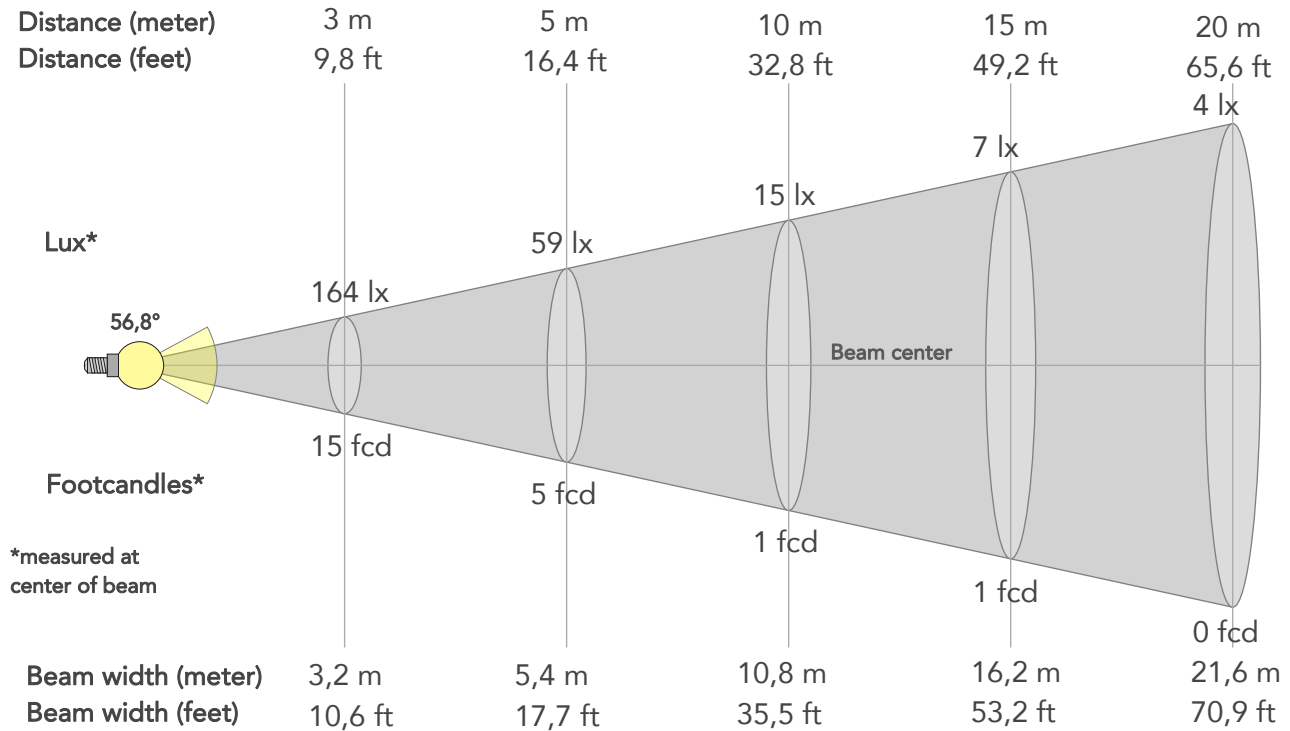
Rg 104,2
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 95 | 1% | -1% |
| 2 | 99 | 0% | 0% |
| 3 | 95 | 0% | 3% |
| 4 | 93 | 1% | 4% |
| 5 | 92 | 2% | 3% |
| 6 | 93 | 4% | 1% |
| 7 | 96 | 2% | -1% |
| 8 | 96 | 0% | -1% |
| 9 | 96 | -2% | 2% |
| 10 | 92 | -2% | 5% |
| 11 | 85 | 1% | 10% |
| 12 | 89 | 2% | 7% |
| 13 | 91 | 5% | 6% |
| 14 | 91 | 5% | 2% |
| 15 | 87 | 12% | -3% |
| 16 | 94 | 3% | -2% |



BEAM DETAILS

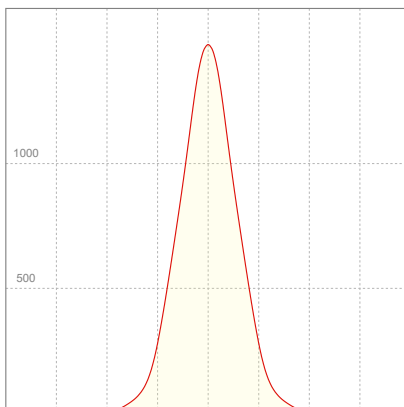
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 56,8° | 105,3° | 142,7° | 94,1% | 81,4% |



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 | 1474lx | 369lx | 164lx | 92lx | 59lx | 26lx | 15lx | 7lx | 4lx | 2lx | 2lx | 1lx | 1lx |
| Footcand. | 137fcd | 34fcd | 15fcd | 9fcd | 5fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 1,1m | 2,2m | 3,2m | 4,3m | 5,4m | 8,1m | 10,8m | 16,2m | 21,6m | 27m | 32,4m | 43,2m | 54,1m |
| Beam wid. | 3,6ft | 7,1ft | 10,6ft | 14,2ft | 17,7ft | 26,6ft | 35,5ft | 53,2ft | 70,9ft | 88,7ft | 106,4ft | 141,8ft | 177,3ft |

LINEAR DISTRIBUTION DIAGRAM

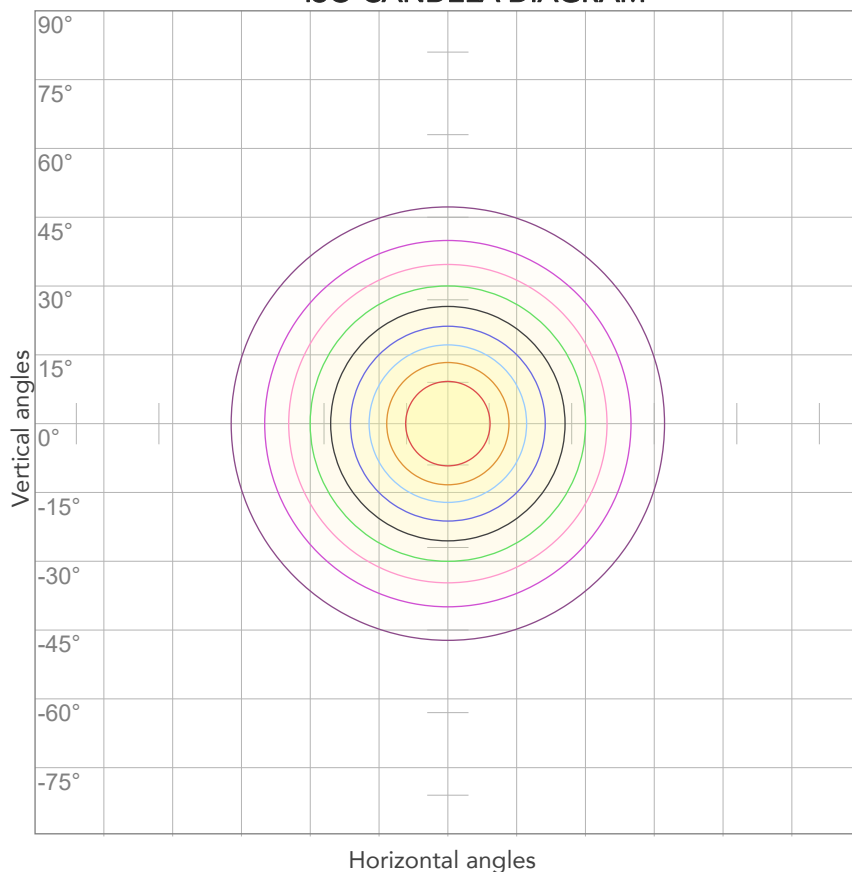


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Efficiency |
|---------------|---------------|-------------|----------|------------|
| 223V | 0,148A | 31,5W | 0,95 | 51lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



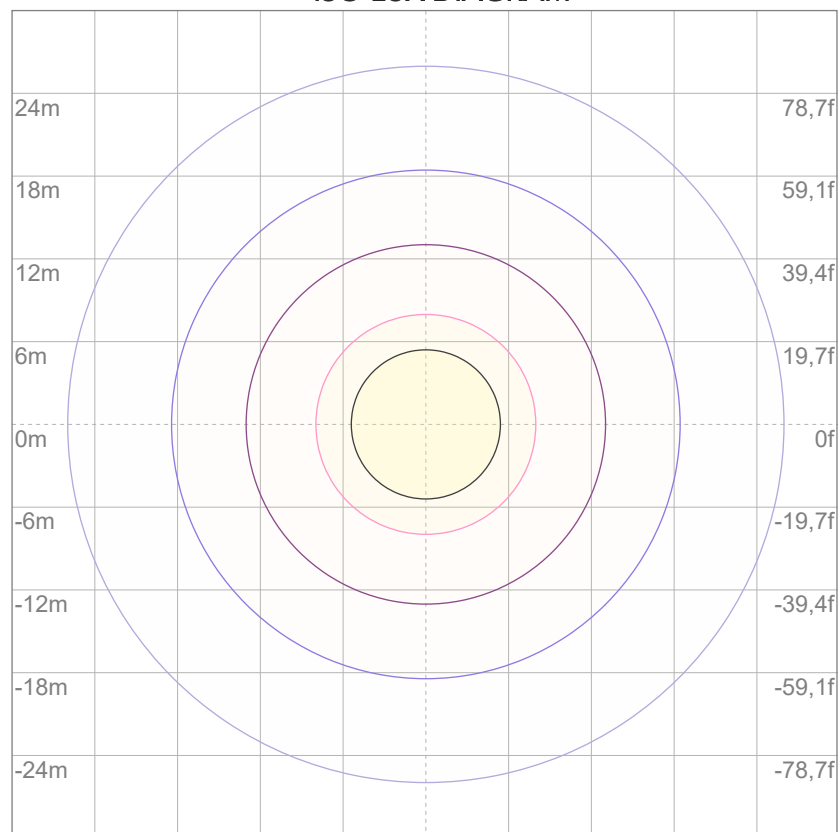
| | |
|-----|---------|
| 10% | 147 cd |
| 20% | 295 cd |
| 30% | 442 cd |
| 40% | 590 cd |
| 50% | 737 cd |
| 60% | 884 cd |
| 70% | 1032 cd |
| 80% | 1179 cd |

Conditions:

Number of c-planes: 2

Candela at center: 1474 cd

ISO LUX DIAGRAM



| | |
|-----|----------|
| 3% | 0,442 lx |
| 5% | 0,737 lx |
| 10% | 1,47 lx |
| 30% | 4,42 lx |
| 50% | 7,37 lx |

Conditions:

Number of c-planes: 2

Lux at center: 14,7 lx

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



Total lumen output:

2339 lm

Peak candela output:

5126 cd

Light quality:

CRI: 94,0

Color temperature:

5572 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 10°x 60° Filter

Target:

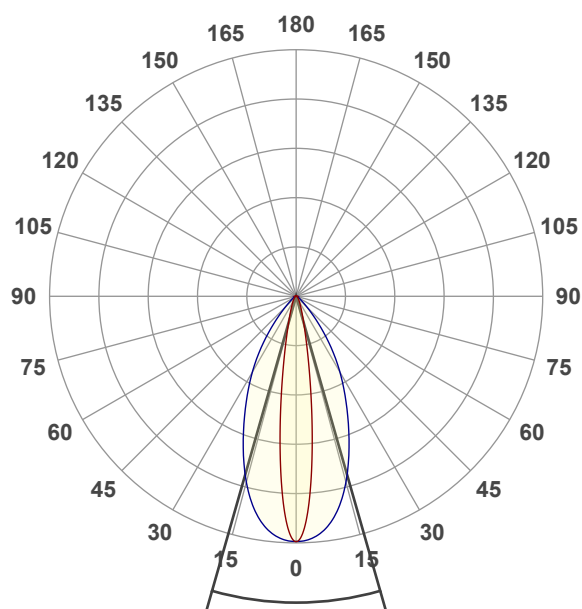
5600K

Operator:

Salvatore Giglio

Date and time:

20/02/2024 10:25:28

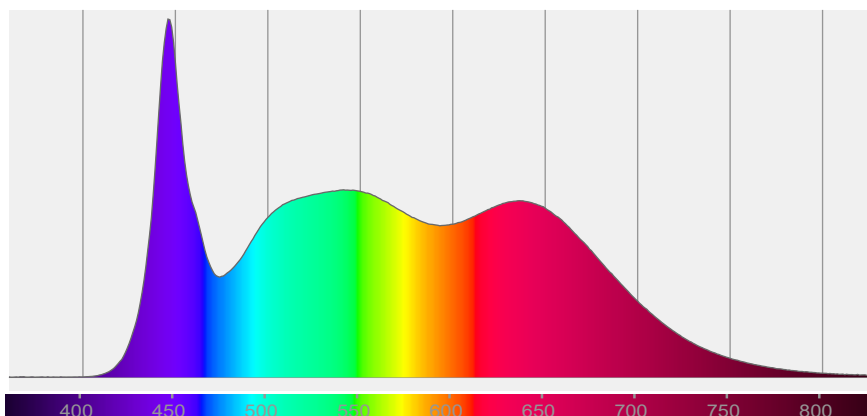


Beam angle 50%: 31,9°

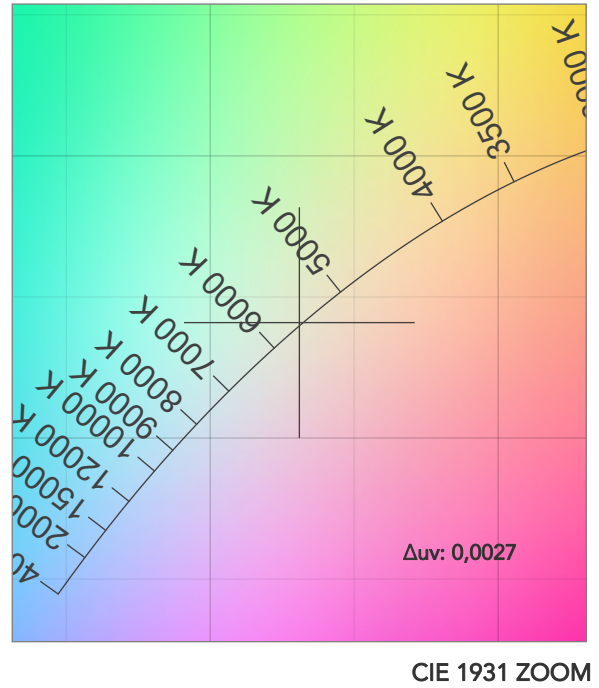
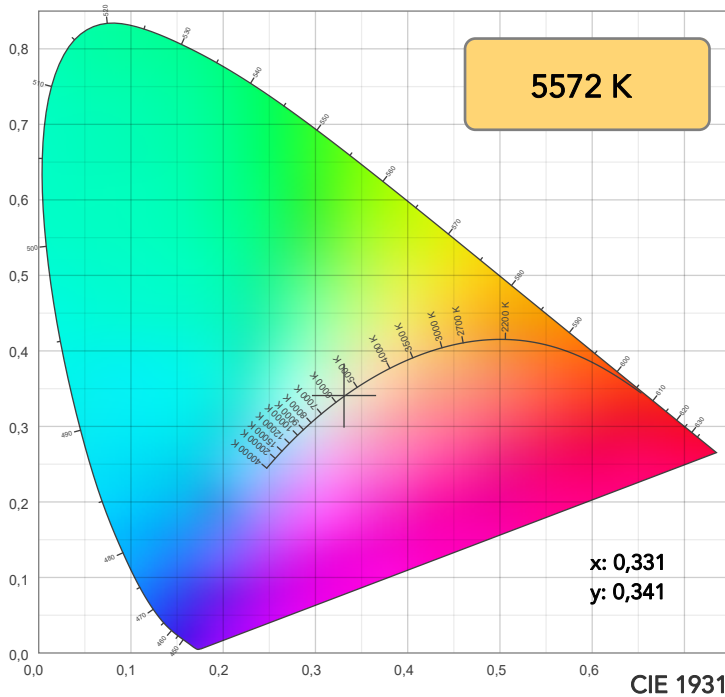
Field angle 10%: 58,7°

Cut off angle 2.5%: 83,8°

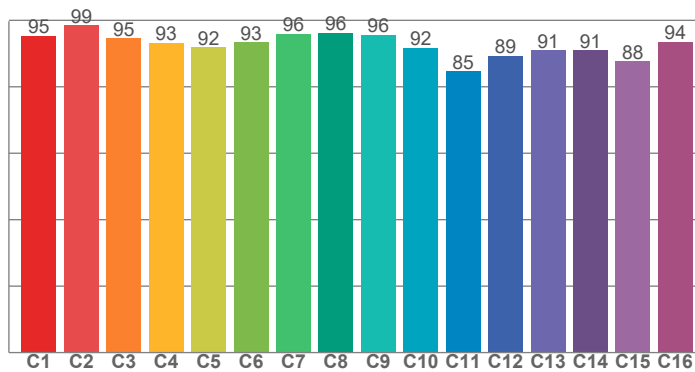
Spectra



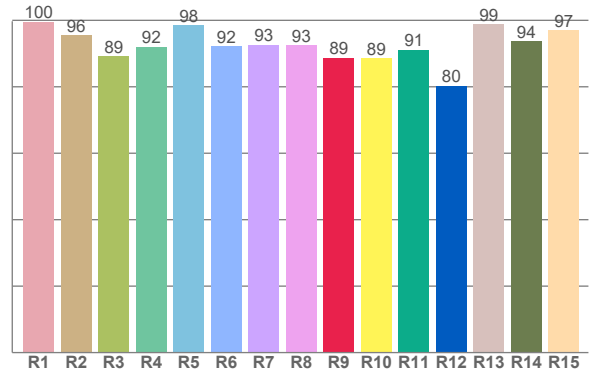
COLOR DETAILS



TM30: 92,7



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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 99,5 | 95,6 | 89,1 | 92,0 | 98,4 | 92,2 | 92,7 | 92,6 | 88,7 | 88,6 | 91,1 | 80,3 | 98,8 | 93,7 | 97,0 |

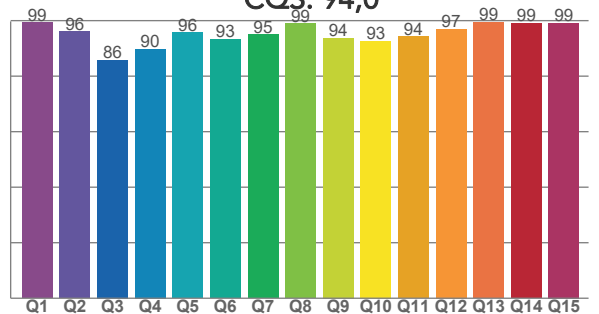
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,4 | 98,5 | 94,5 | 93,1 | 91,8 | 93,3 | 96,0 | 96,2 | 95,7 | 91,7 | 84,6 | 89,3 | 91,0 | 91,0 | 87,6 | 93,6 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 99,3 | 96,1 | 85,9 | 89,8 | 95,7 | 93,3 | 94,9 | 99,0 | 93,7 | 92,7 | 94,3 | 96,9 | 99,4 | 99,0 | 99,2 |

CQS: 94,0



COLOR PARAMETERS

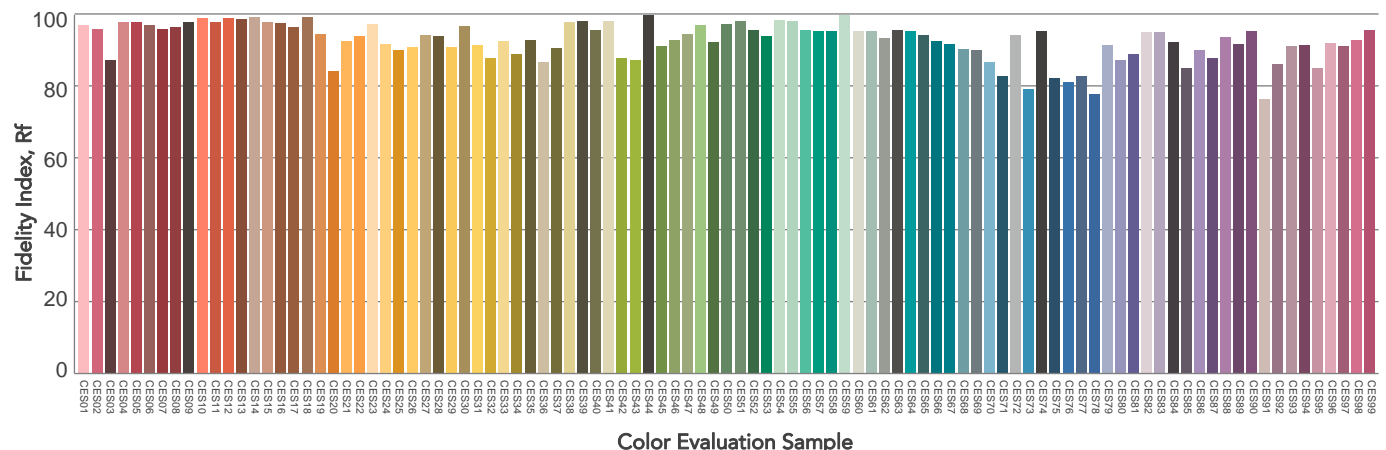
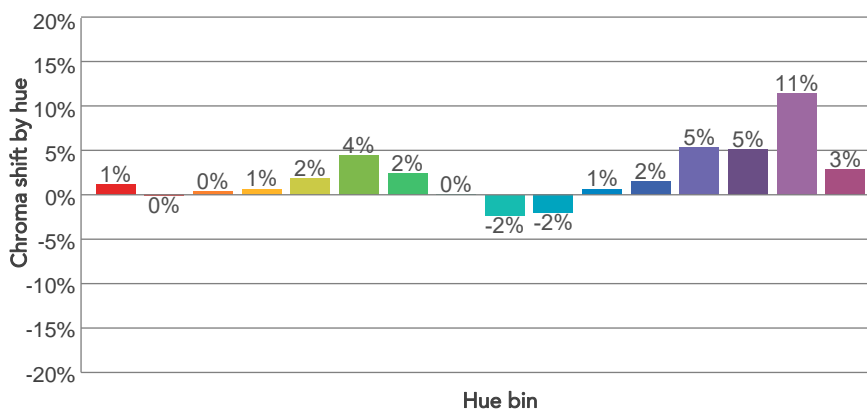
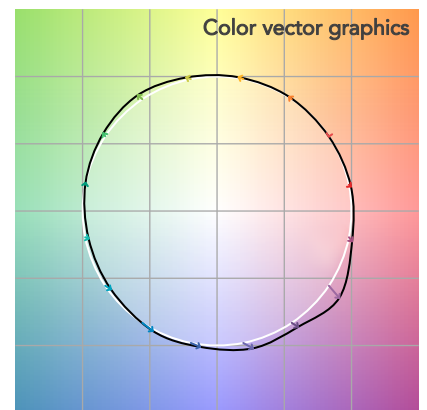
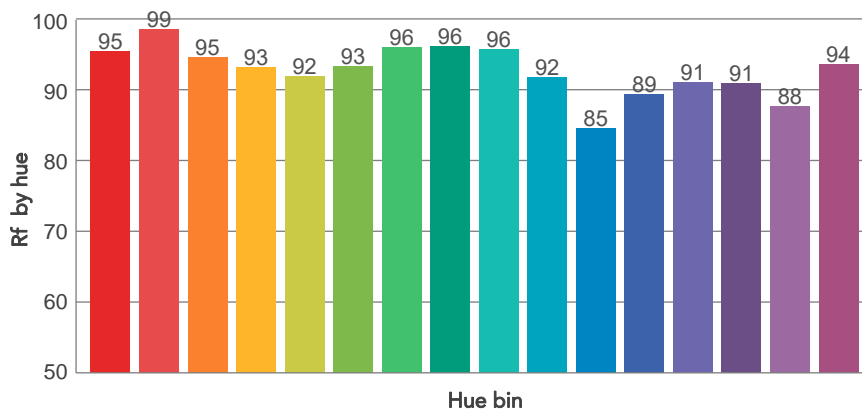
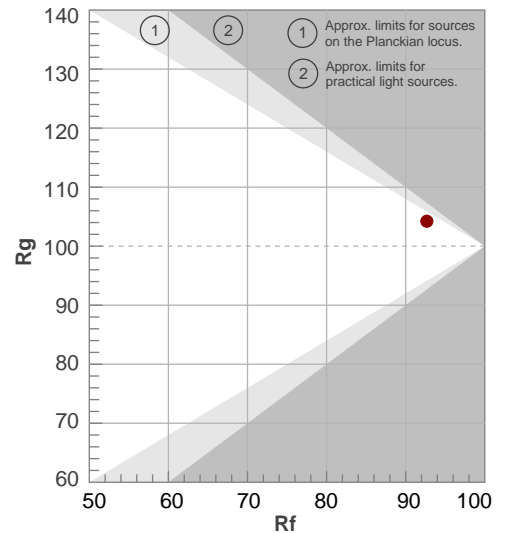
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 5572 K | 94,0 | 88,7 | 92,7 | 104,2 | 94,0 | 98 | 0,331 | 0,341 | 0,0027 |

TM30 DETAILS

Rf 92,7
Fidelity index Rf

Rg 104,2
Gammut index

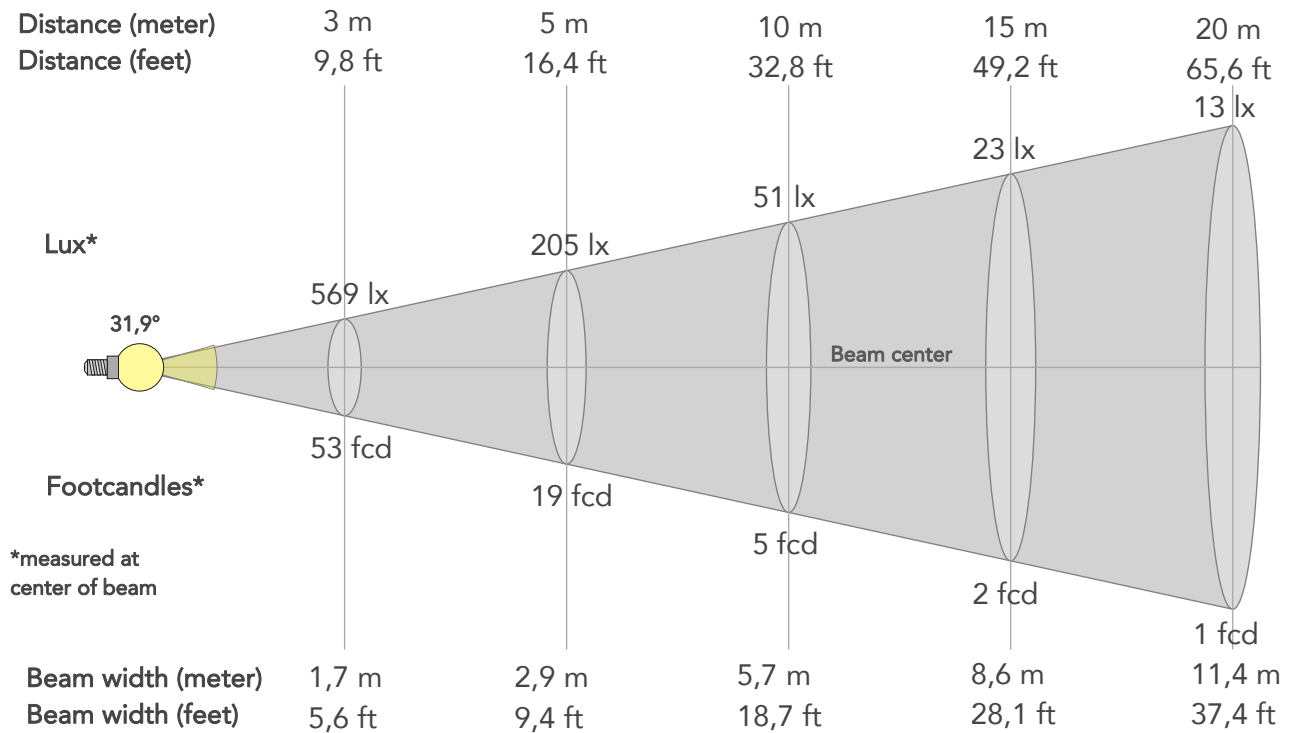
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 95 | 1% | -2% |
| 2 | 99 | 0% | 0% |
| 3 | 95 | 0% | 3% |
| 4 | 93 | 1% | 4% |
| 5 | 92 | 2% | 3% |
| 6 | 93 | 4% | 1% |
| 7 | 96 | 2% | -1% |
| 8 | 96 | 0% | -1% |
| 9 | 96 | -2% | 1% |
| 10 | 92 | -2% | 5% |
| 11 | 85 | 1% | 10% |
| 12 | 89 | 2% | 7% |
| 13 | 91 | 5% | 6% |
| 14 | 91 | 5% | 2% |
| 15 | 88 | 11% | -3% |
| 16 | 94 | 3% | -2% |



BEAM DETAILS



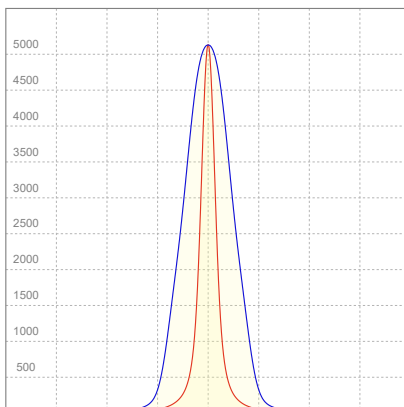
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 31,9° | 58,7° | 83,8° | 97,2% | 92,1% |



BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|-----------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 5125lx | 1281lx | 569lx | 320lx | 205lx | 91lx | 51lx | 23lx | 13lx | 8lx | 6lx | 3lx | 2lx |
| Footcand. | 476fcd | 119fcd | 53fcd | 30fcd | 19fcd | 8fcd | 5fcd | 2fcd | 1fcd | 1fcd | 1fcd | 0fcd | 0fcd |
| Beam wid. | 0,6m | 1,1m | 1,7m | 2,3m | 2,9m | 4,3m | 5,7m | 8,6m | 11,4m | 14,3m | 17,1m | 22,8m | 28,5m |
| Beam wid. | 1,9ft | 3,8ft | 5,6ft | 7,5ft | 9,4ft | 14ft | 18,7ft | 28,1ft | 37,4ft | 46,8ft | 56,2ft | 74,9ft | 93,6ft |

LINEAR DISTRIBUTION DIAGRAM

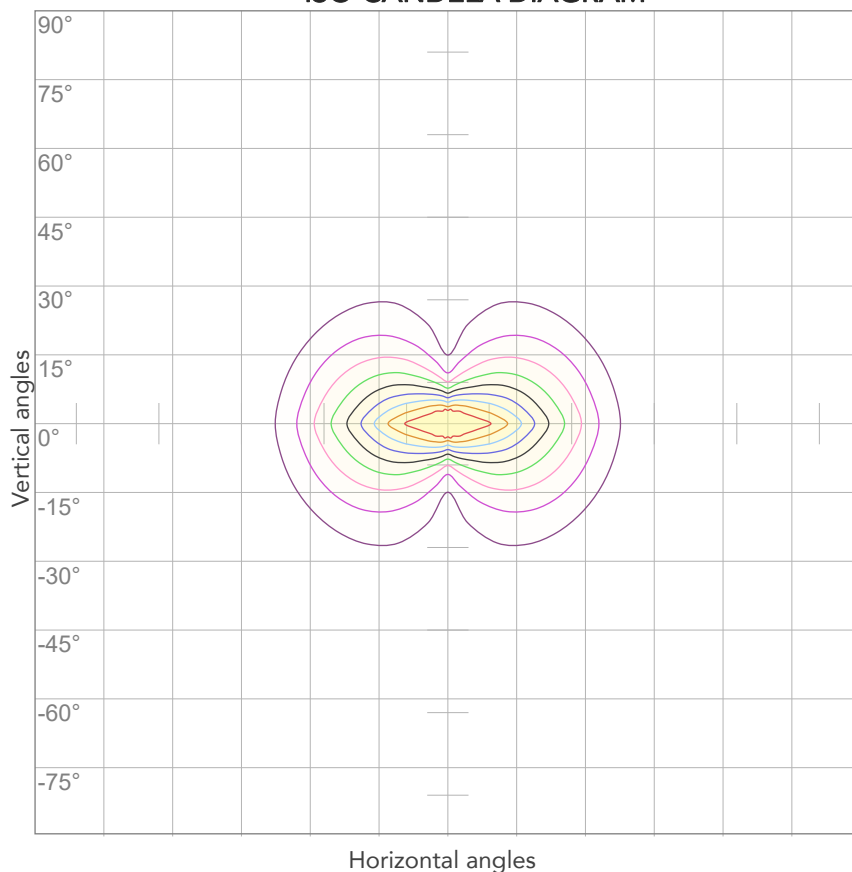


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Efficiency |
|---------------|---------------|-------------|----------|------------|
| 225V | 0,147A | 31,6W | 0,96 | 74lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



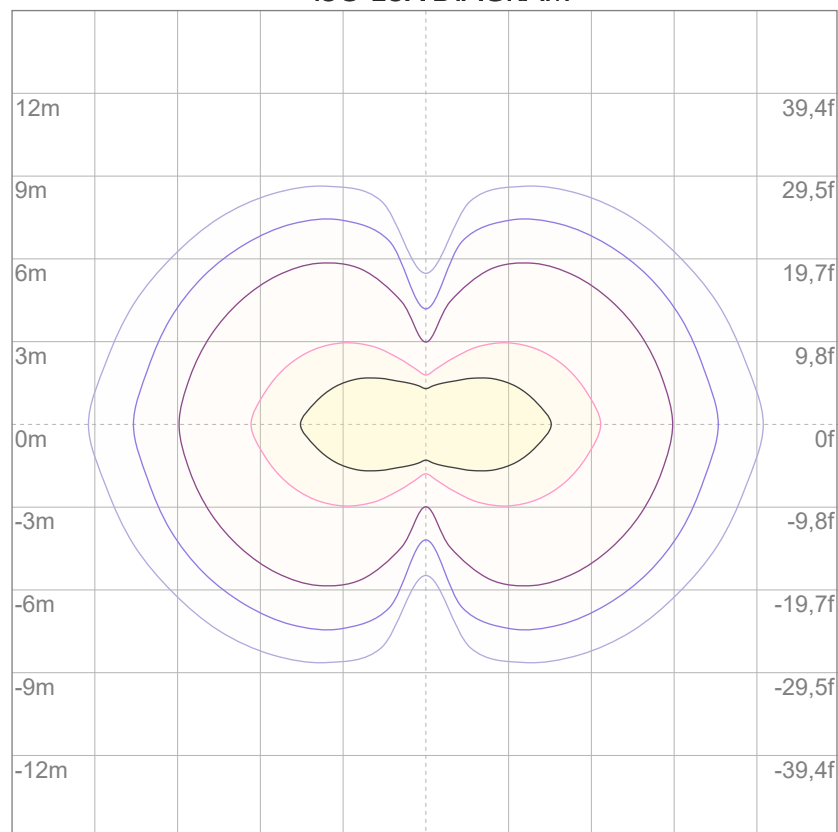
| | |
|-----|---------|
| 10% | 512 cd |
| 20% | 1025 cd |
| 30% | 1537 cd |
| 40% | 2050 cd |
| 50% | 2562 cd |
| 60% | 3075 cd |
| 70% | 3587 cd |
| 80% | 4100 cd |

Conditions:

Number of c-planes: 4

Candela at center: 5125 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 1,54 lx |
| 5% | 2,56 lx |
| 10% | 5,12 lx |
| 30% | 15,4 lx |
| 50% | 25,6 lx |

Conditions:

Number of c-planes: 4

Lux at center: 51,2 lx

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



Total lumen output:

1534 lm

Peak candela output:

2528 cd

Light quality:

CRI: 94,2

Color temperature:

5635 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 30°x 60° Filter

Target:

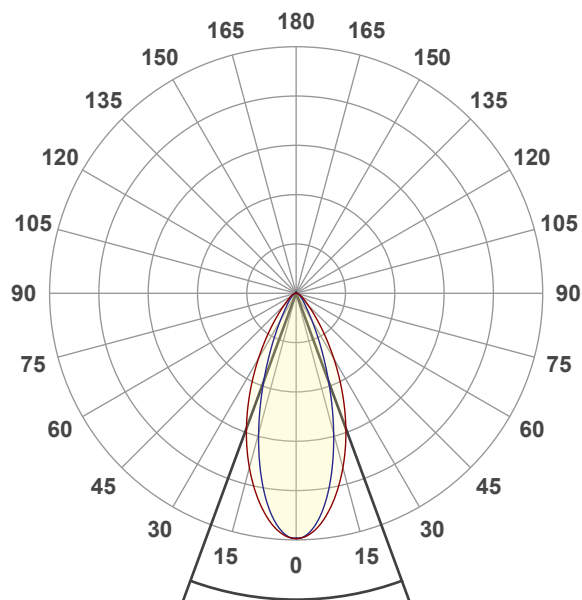
5600K

Operator:

Salvatore Giglio

Date and time:

20/02/2024 11:58:24

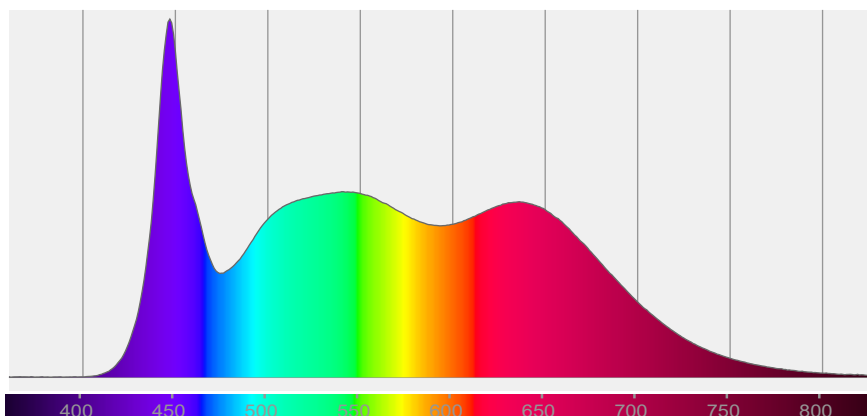


Beam angle 50%: 40,4°

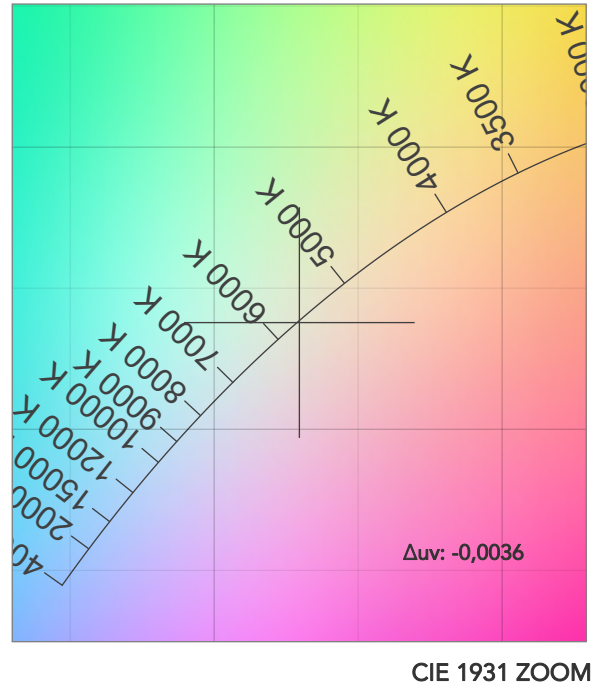
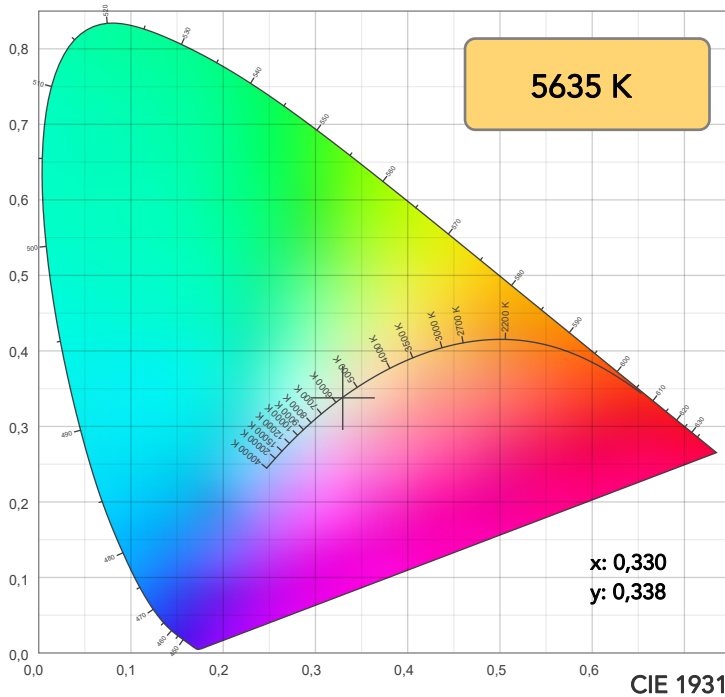
Field angle 10%: 73,9°

Cut off angle 2.5%: 111,7°

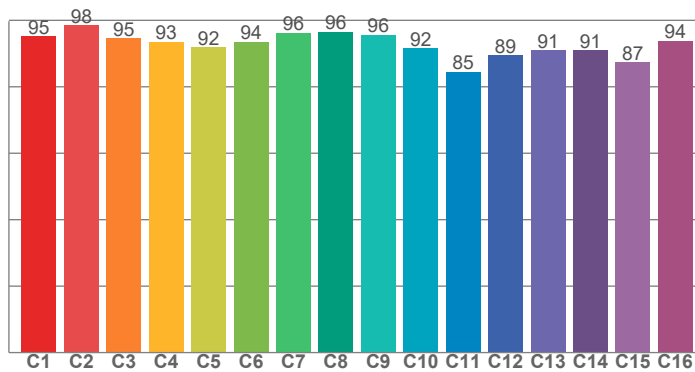
Spectra



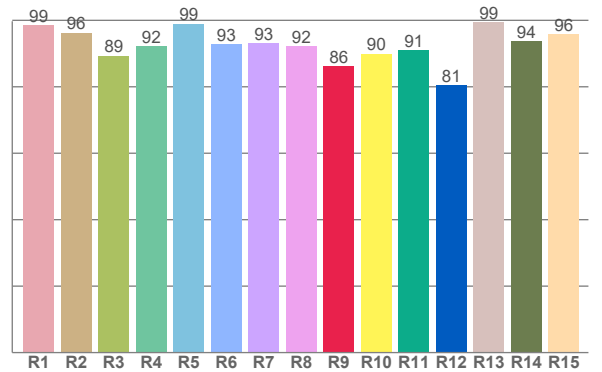
COLOR DETAILS



TM30: 92,7



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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 98,5 | 96,2 | 89,4 | 92,2 | 99,0 | 92,8 | 93,1 | 92,2 | 86,2 | 89,9 | 91,0 | 80,6 | 99,4 | 93,8 | 95,7 |

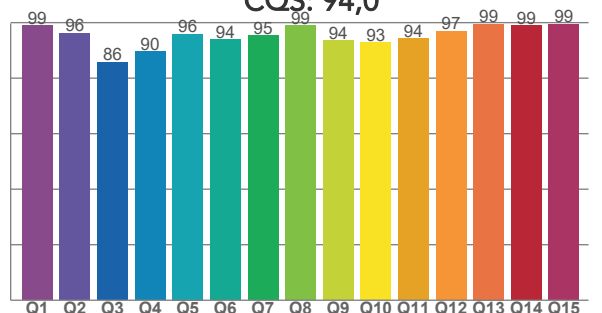
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,2 | 98,4 | 94,5 | 93,4 | 91,9 | 93,6 | 96,2 | 96,4 | 95,6 | 91,5 | 84,5 | 89,5 | 91,0 | 90,9 | 87,4 | 93,8 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 98,9 | 96,1 | 85,7 | 89,5 | 96,0 | 93,9 | 95,4 | 98,9 | 93,5 | 92,8 | 94,2 | 96,9 | 99,4 | 99,0 | 99,4 |

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 |
| 5635 K | 94,2 | 86,2 | 92,7 | 104,3 | 94,0 | 98 | 0,330 | 0,338 | -0,0036 |

TM30 DETAILS

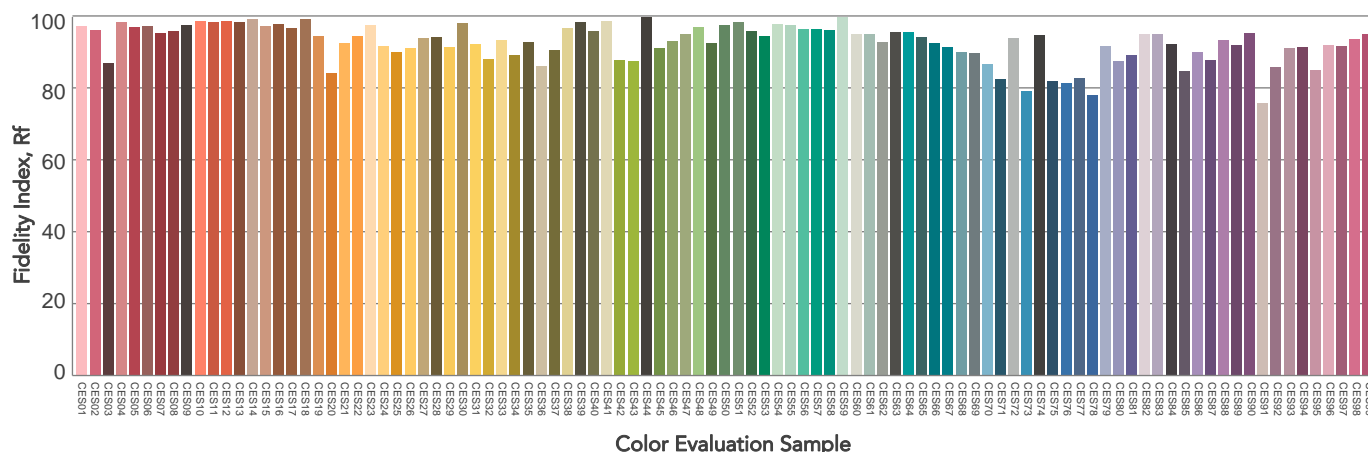
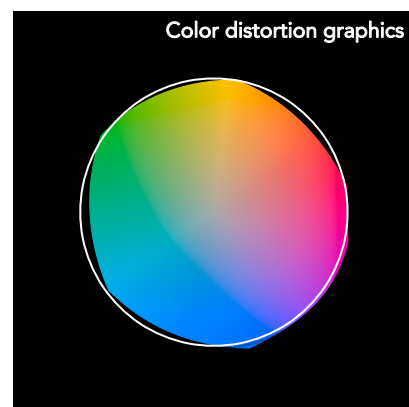
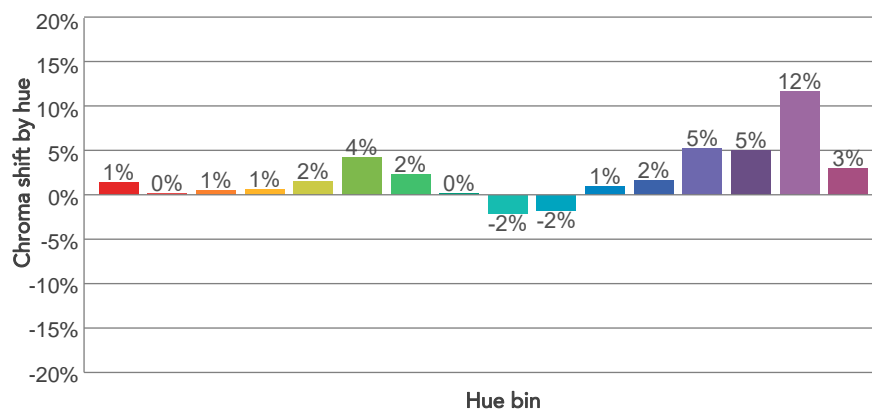
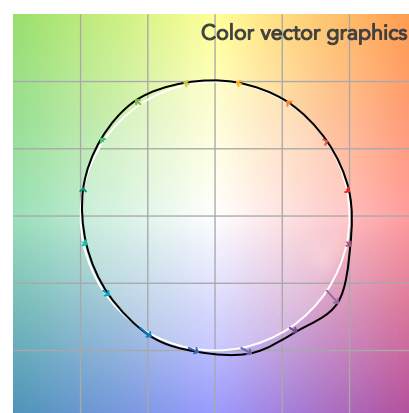
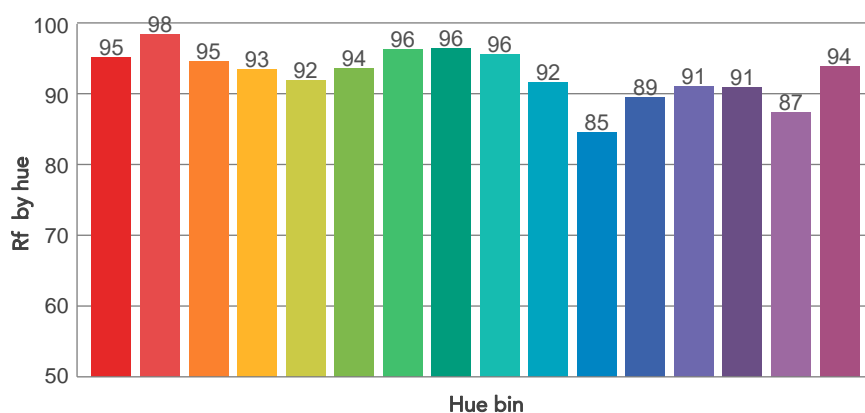
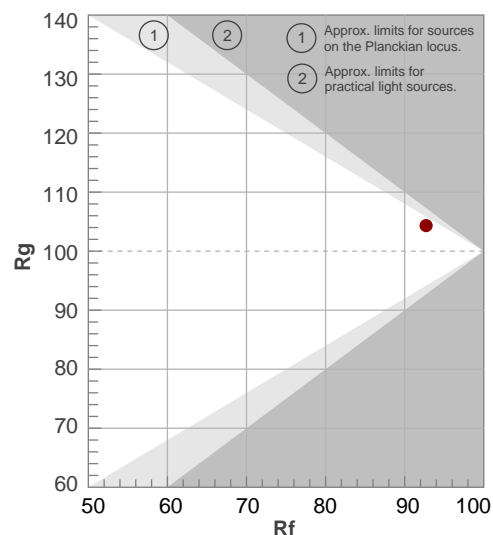
Rf 92,7

Fidelity index Rf

Rg 104,3

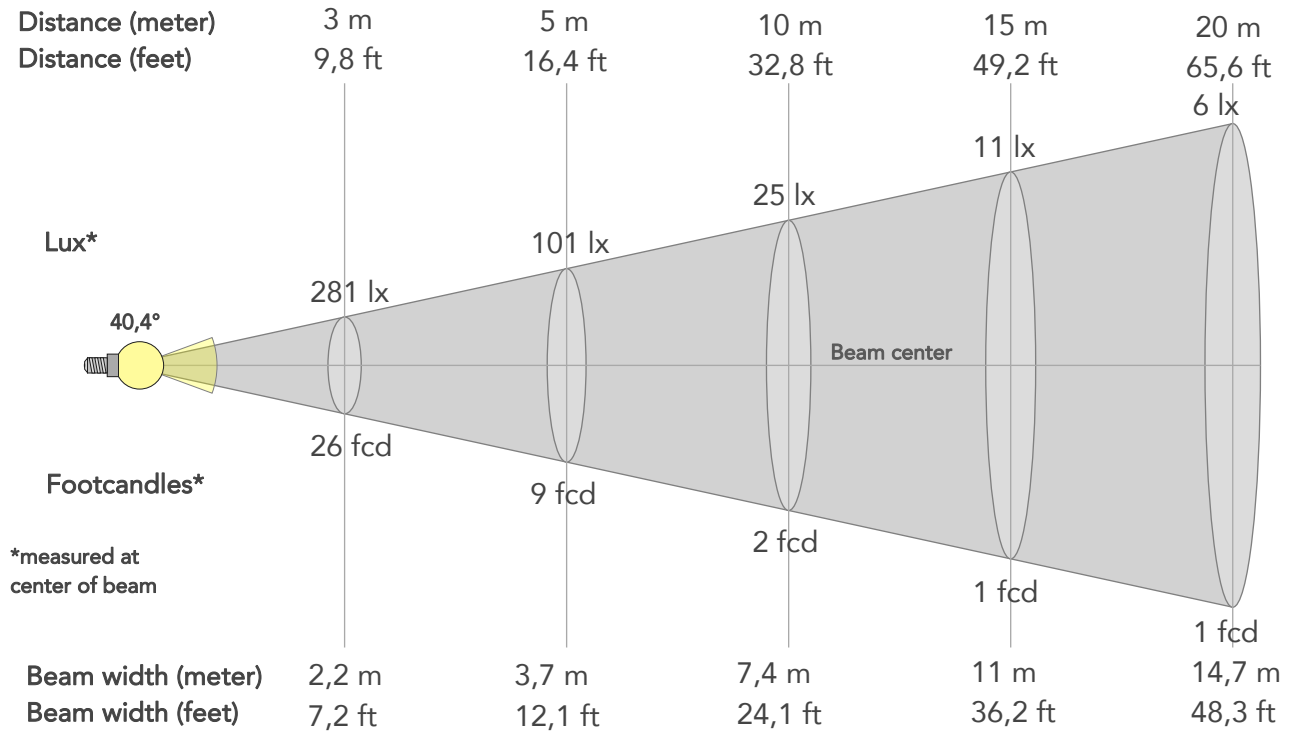
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 95 | 1% | -1% |
| 2 | 98 | 0% | 0% |
| 3 | 95 | 1% | 2% |
| 4 | 93 | 1% | 3% |
| 5 | 92 | 2% | 3% |
| 6 | 94 | 4% | 1% |
| 7 | 96 | 2% | -1% |
| 8 | 96 | 0% | -1% |
| 9 | 96 | -2% | 2% |
| 10 | 92 | -2% | 5% |
| 11 | 85 | 1% | 10% |
| 12 | 89 | 2% | 7% |
| 13 | 91 | 5% | 6% |
| 14 | 91 | 5% | 3% |
| 15 | 87 | 12% | -3% |
| 16 | 94 | 3% | -2% |



BEAM DETAILS

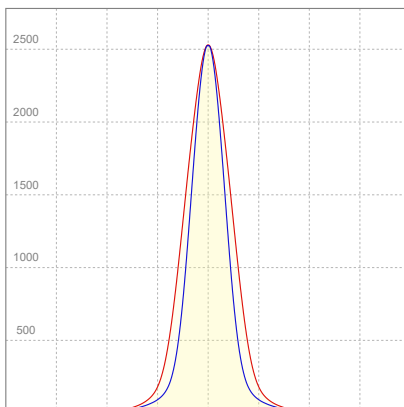
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 40,4° | 73,9° | 111,7° | 95,5% | 88,4% |



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 | 2526lx | 632lx | 281lx | 158lx | 101lx | 45lx | 25lx | 11lx | 6lx | 4lx | 3lx | 2lx | 1lx |
| Footcand. | 235fcd | 59fcd | 26fcd | 15fcd | 9fcd | 4fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,7m | 1,5m | 2,2m | 2,9m | 3,7m | 5,5m | 7,4m | 11m | 14,7m | 18,4m | 22,1m | 29,4m | 36,8m |
| Beam wid. | 2,4ft | 4,9ft | 7,2ft | 9,6ft | 12,1ft | 18,1ft | 24,1ft | 36,2ft | 48,3ft | 60,3ft | 72,4ft | 96,5ft | 120,6ft |

LINEAR DISTRIBUTION DIAGRAM

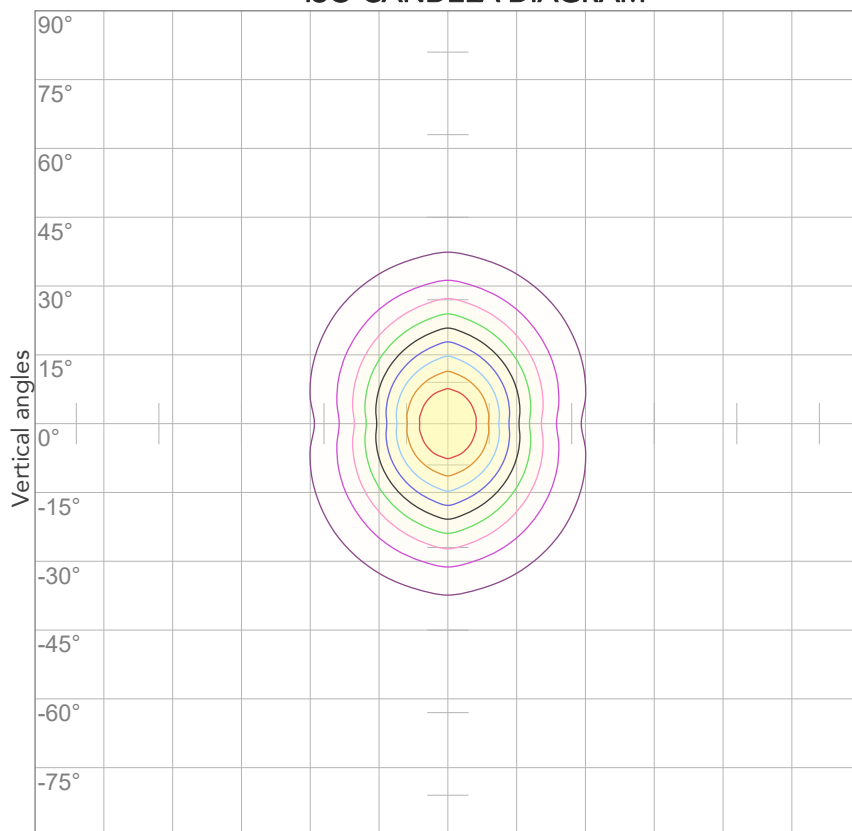


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Efficiency |
|---------------|---------------|-------------|----------|------------|
| 227V | 0,144A | 31,3W | 0,96 | 49lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



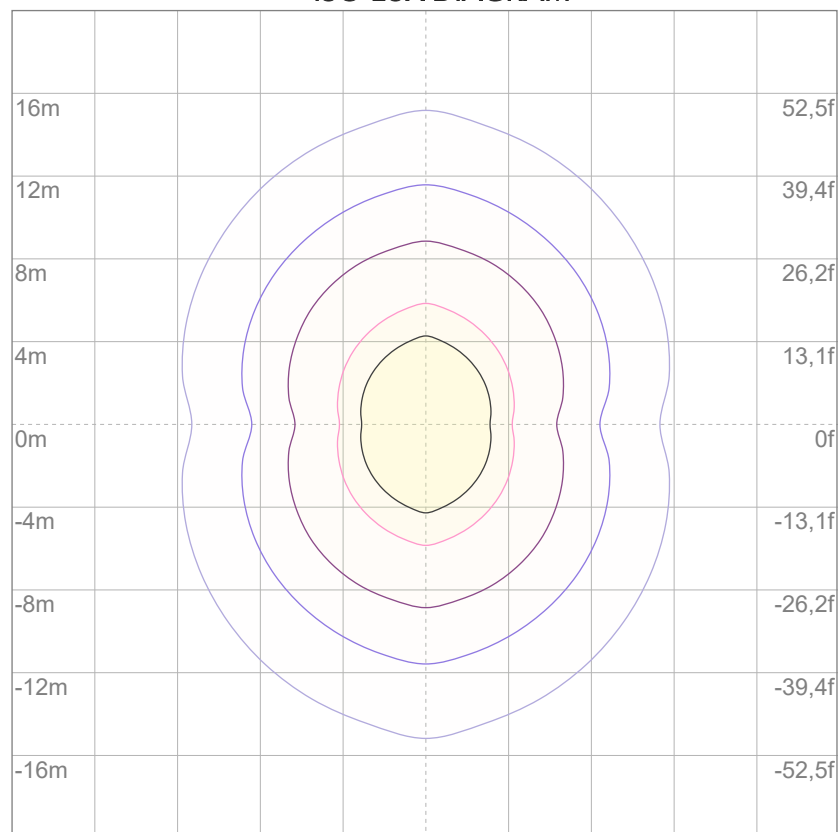
| | |
|-----|---------|
| 10% | 253 cd |
| 20% | 505 cd |
| 30% | 758 cd |
| 40% | 1011 cd |
| 50% | 1263 cd |
| 60% | 1516 cd |
| 70% | 1769 cd |
| 80% | 2021 cd |

Conditions:

Number of c-planes: 4

Candela at center: 2526 cd

ISO LUX DIAGRAM



| | |
|-----|----------|
| 3% | 0,758 lx |
| 5% | 1,26 lx |
| 10% | 2,53 lx |
| 30% | 7,58 lx |
| 50% | 12,6 lx |

Conditions:

Number of c-planes: 4

Lux at center: 25,3 lx

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



Total lumen output:

1646 lm

Peak candela output:

32993 cd

Light quality:

CRI: 93,4

Color temperature:

6584 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10°

Target:

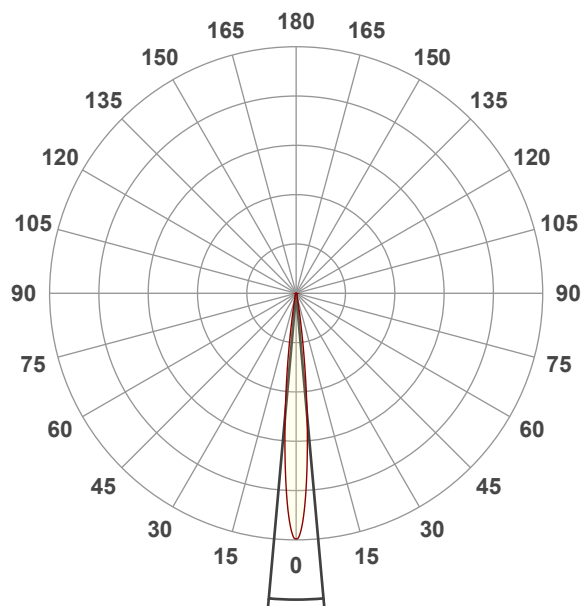
6500K

Operator:

Salvatore Giglio

Date and time:

19/02/2024 16:54:01

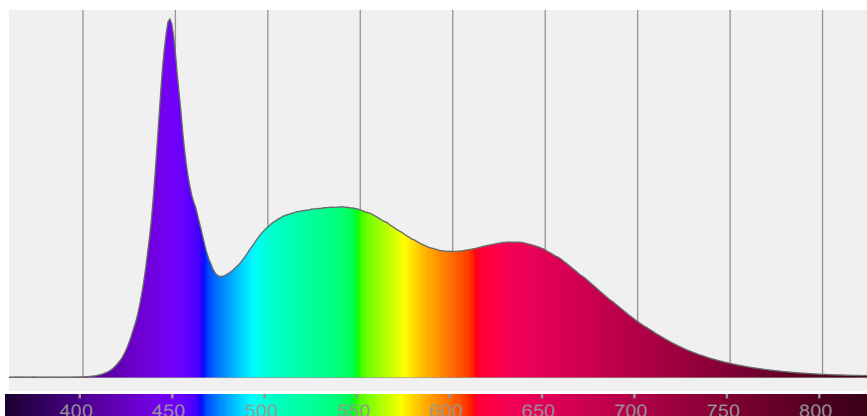


Beam angle 50%: 10,2°

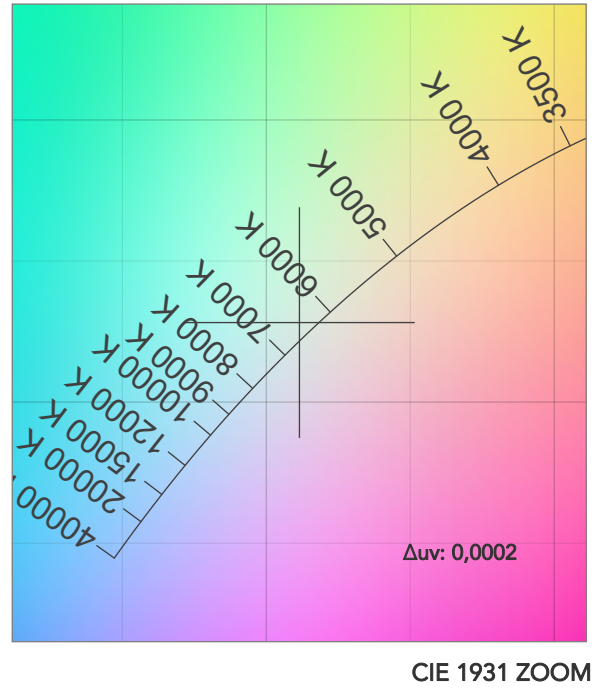
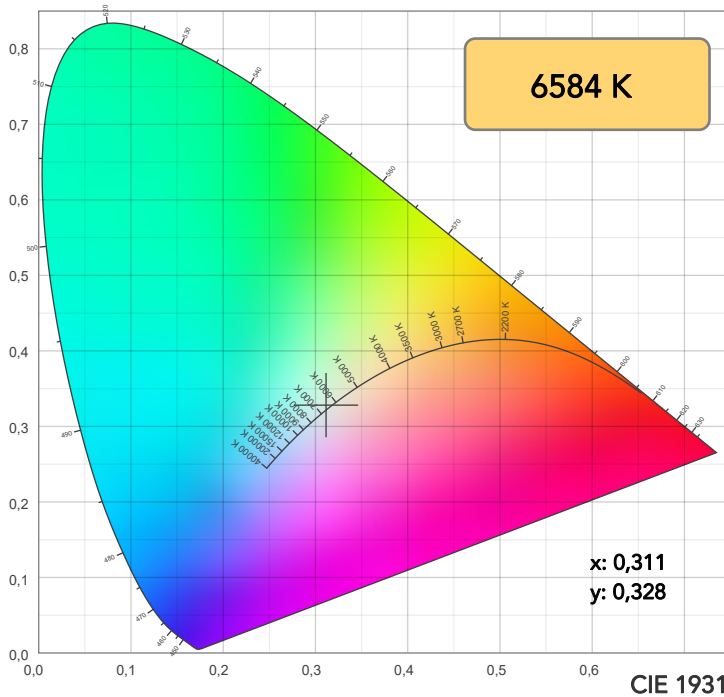
Field angle 10%: 18,6°

Cut off angle 2.5%: 27,5°

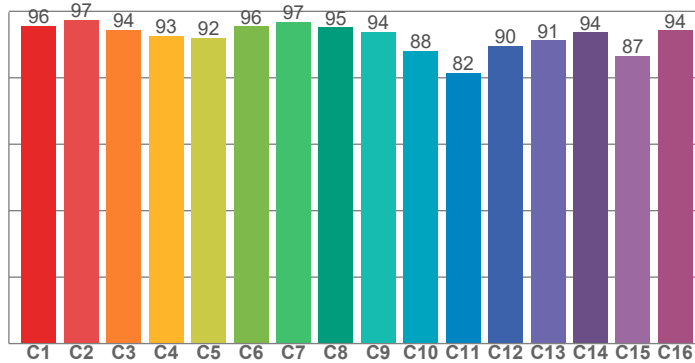
Spectra



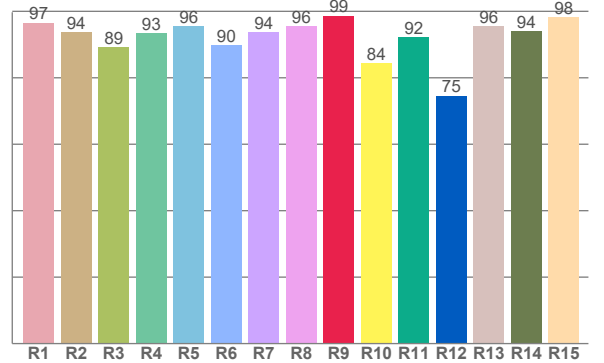
COLOR DETAILS



TM30: 92,3



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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,6 | 93,7 | 89,2 | 93,4 | 95,6 | 89,8 | 93,7 | 95,6 | 98,7 | 84,4 | 92,2 | 74,6 | 95,5 | 94,0 | 98,3 |

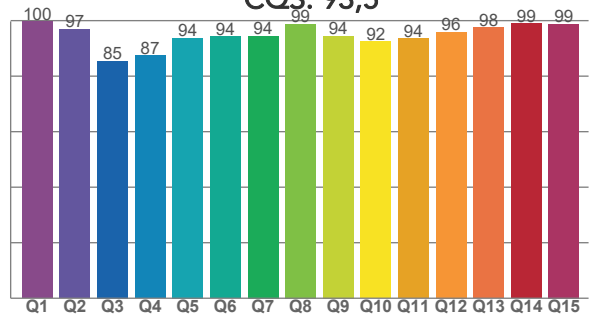
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,7 | 97,4 | 94,4 | 92,6 | 92,0 | 95,5 | 96,8 | 95,2 | 93,9 | 88,1 | 81,5 | 89,6 | 91,2 | 93,7 | 86,5 | 94,3 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 99,7 | 96,9 | 85,4 | 87,4 | 93,8 | 94,2 | 94,5 | 98,7 | 94,5 | 92,5 | 93,6 | 95,9 | 97,6 | 98,9 | 98,8 |

CQS: 93,5



COLOR PARAMETERS

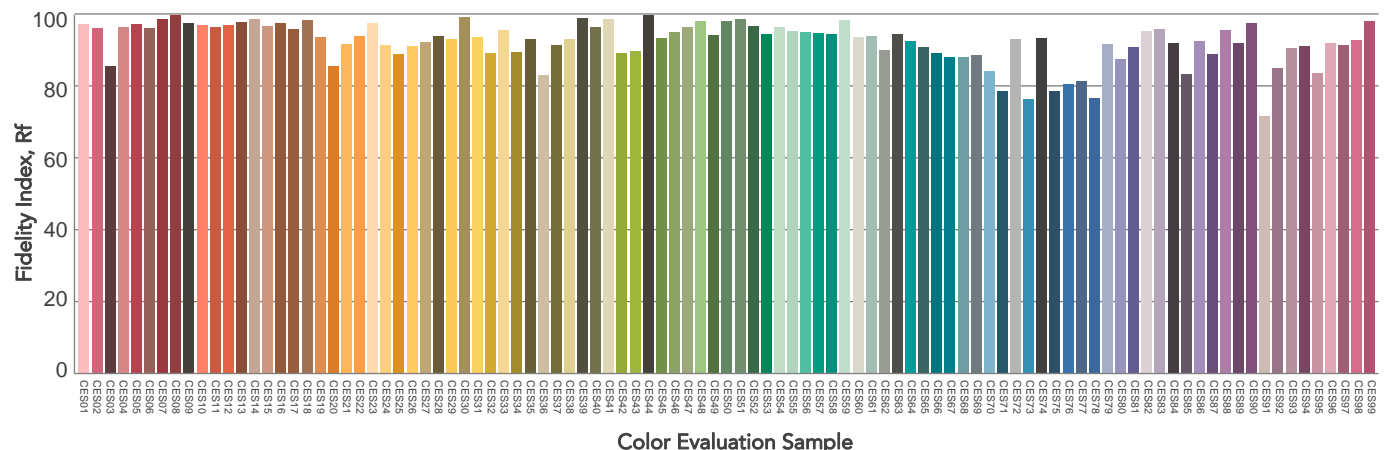
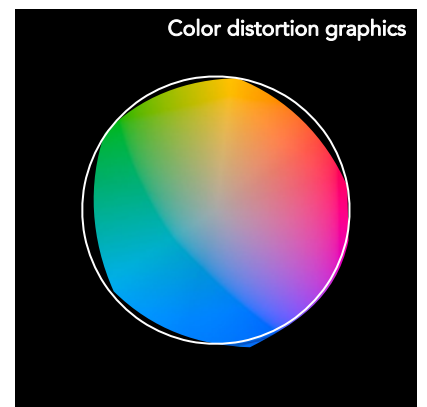
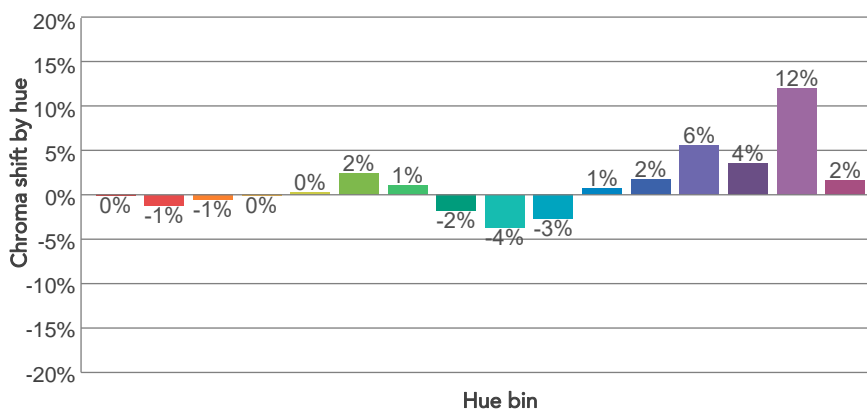
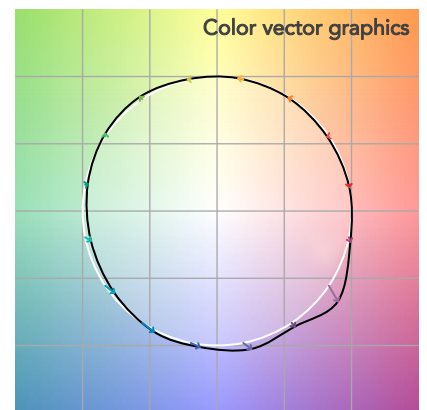
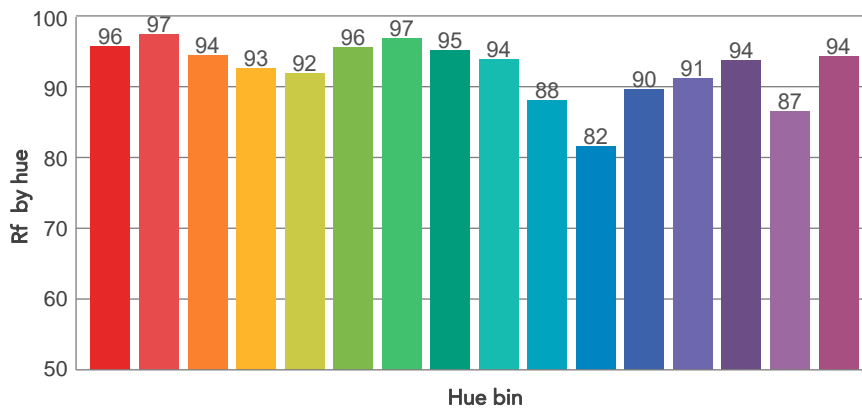
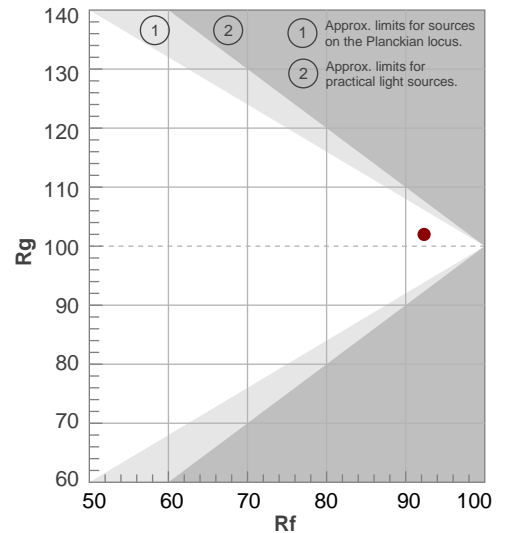
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 6584 K | 93,4 | 98,7 | 92,3 | 102,0 | 93,5 | 98 | 0,311 | 0,328 | 0,0002 |

TM30 DETAILS

Rf 92,3
Fidelity index Rf

Rg 102,0
Gammut index

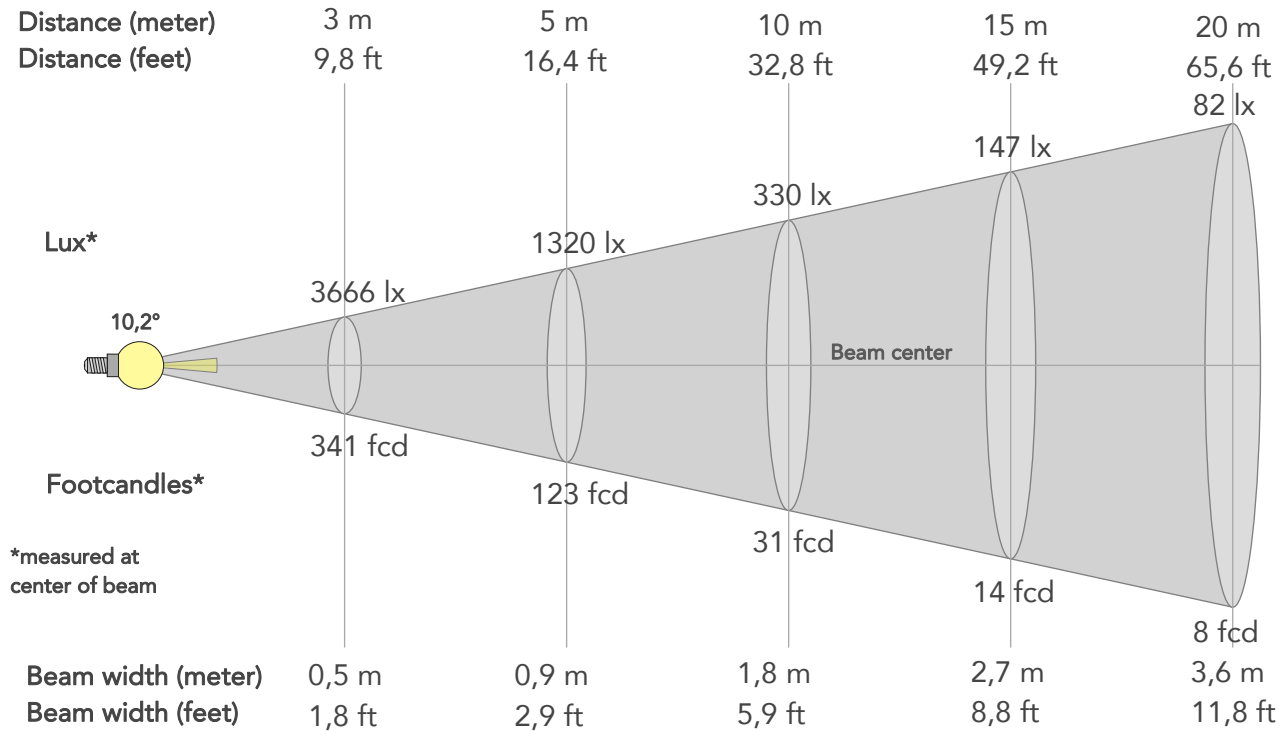
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 96 | 0% | -2% |
| 2 | 97 | -1% | 0% |
| 3 | 94 | -1% | 3% |
| 4 | 93 | 0% | 4% |
| 5 | 92 | 0% | 2% |
| 6 | 96 | 2% | 1% |
| 7 | 97 | 1% | -2% |
| 8 | 95 | -2% | -1% |
| 9 | 94 | -4% | 3% |
| 10 | 88 | -3% | 8% |
| 11 | 82 | 1% | 11% |
| 12 | 90 | 2% | 7% |
| 13 | 91 | 6% | 5% |
| 14 | 94 | 4% | 0% |
| 15 | 87 | 12% | -6% |
| 16 | 94 | 2% | -3% |



BEAM DETAILS



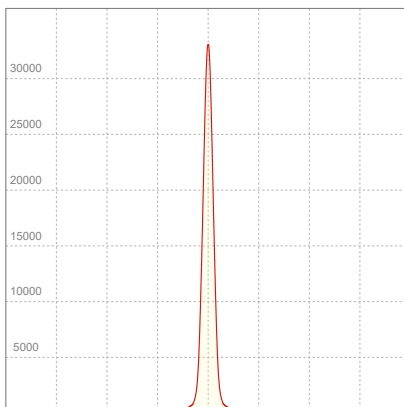
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 10,2° | 18,6° | 27,5° | 97,6% | 94,5% |



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 | 32993lx | 8248lx | 3666lx | 2062lx | 1320lx | 587lx | 330lx | 147lx | 82lx | 53lx | 37lx | 21lx | 13lx |
| Footcand. | 3065fcd | 766fcd | 341fcd | 192fcd | 123fcd | 54fcd | 31fcd | 14fcd | 8fcd | 5fcd | 3fcd | 2fcd | 1fcd |
| Beam wid. | 0,2m | 0,4m | 0,5m | 0,7m | 0,9m | 1,3m | 1,8m | 2,7m | 3,6m | 4,5m | 5,4m | 7,2m | 9m |
| Beam wid. | 0,6ft | 1,2ft | 1,8ft | 2,3ft | 2,9ft | 4,4ft | 5,9ft | 8,8ft | 11,8ft | 14,7ft | 17,7ft | 23,5ft | 29,4ft |

LINEAR DISTRIBUTION DIAGRAM

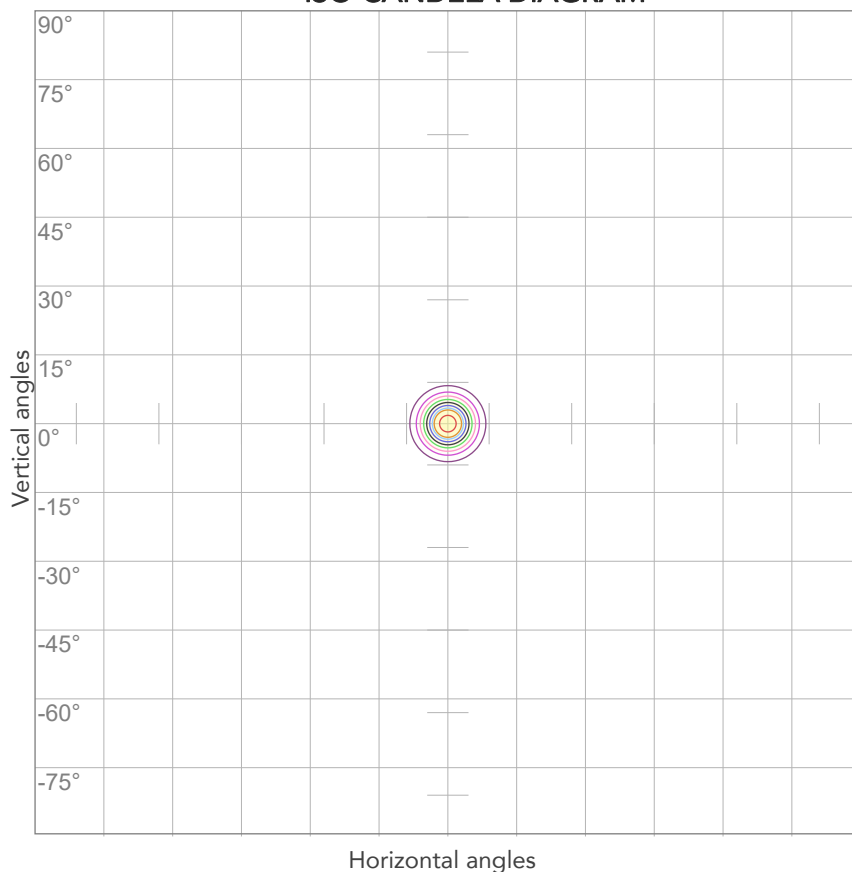


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Effeciency |
|---------------|---------------|-------------|----------|------------|
| 226V | 0,127A | 26,7W | 0,93 | 62lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



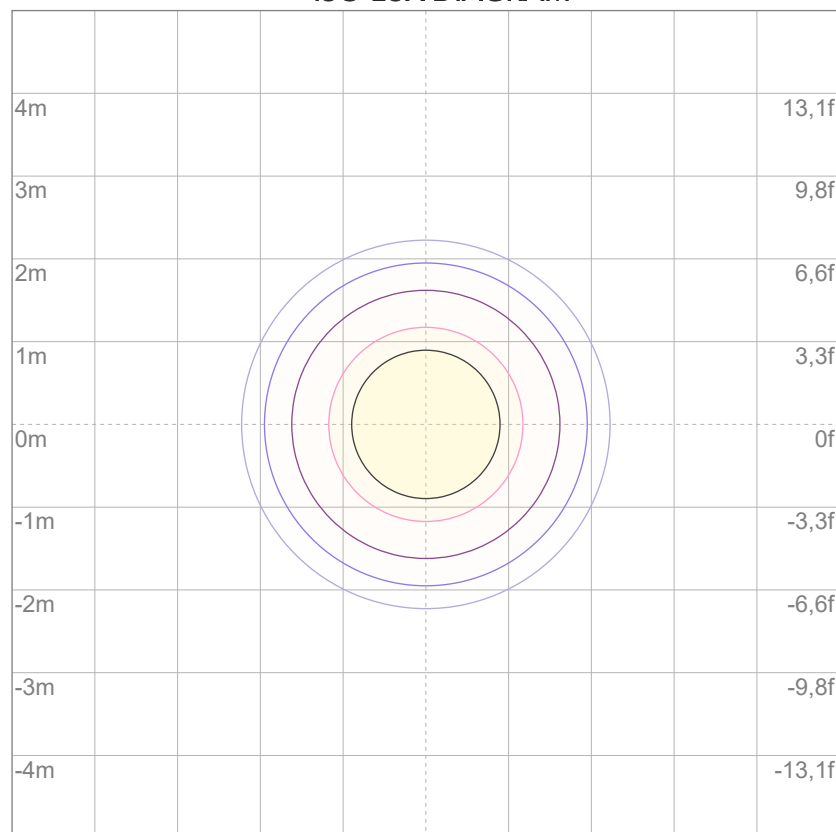
| | |
|-----|----------|
| 10% | 3299 cd |
| 20% | 6599 cd |
| 30% | 9898 cd |
| 40% | 13197 cd |
| 50% | 16497 cd |
| 60% | 19796 cd |
| 70% | 23095 cd |
| 80% | 26395 cd |

Conditions:

Number of c-planes: 2

Candela at center: 32993 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 9,90 lx |
| 5% | 16,5 lx |
| 10% | 33,0 lx |
| 30% | 99,0 lx |
| 50% | 165 lx |

Conditions:

Number of c-planes: 2

Lux at center: 330 lx

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



Total lumen output:

1500 lm

Peak candela output:

6142 cd

Light quality:

CRI: 93,6

Color temperature:

6569 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 20° Filter

Target:

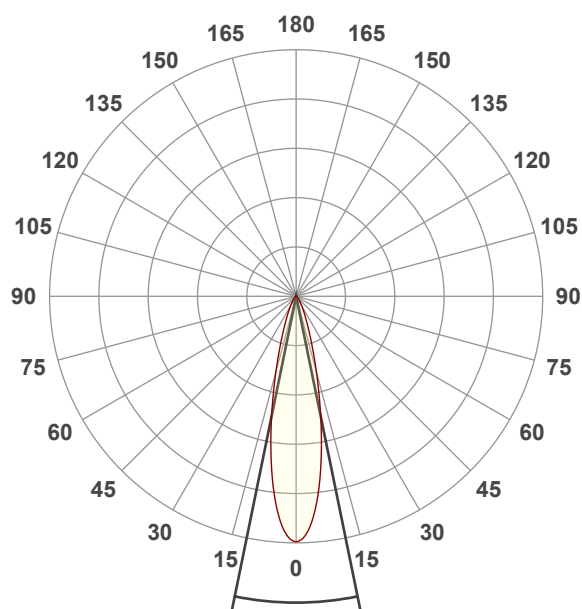
6500K

Operator:

Salvatore Giglio

Date and time:

19/02/2024 17:28:01

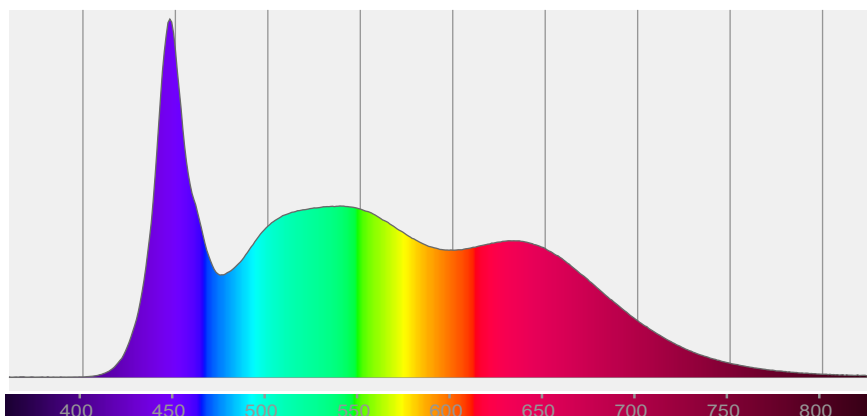


Beam angle 50%: 23,1°

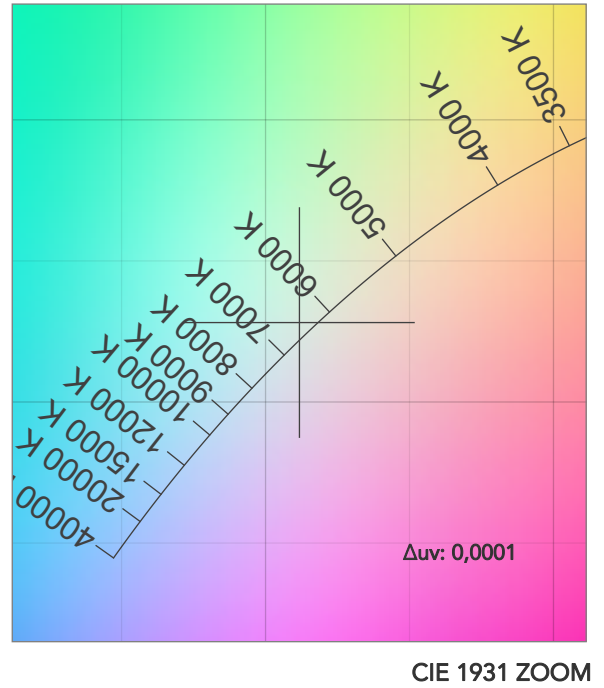
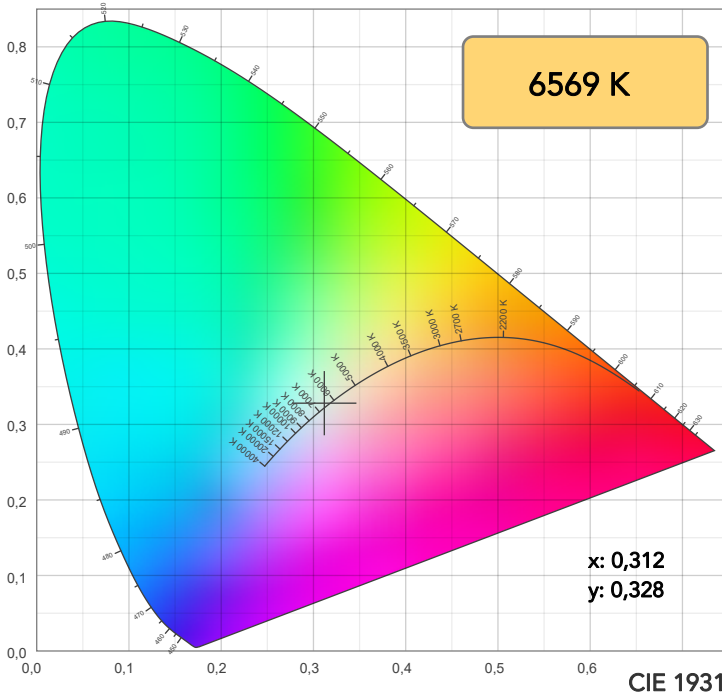
Field angle 10%: 46,8°

Cut off angle 2.5%: 72,5°

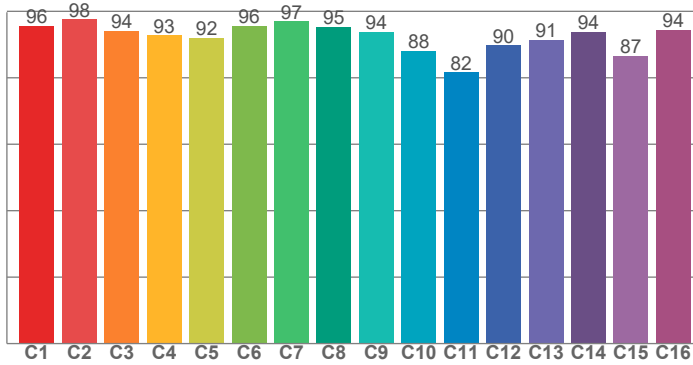
Spectra



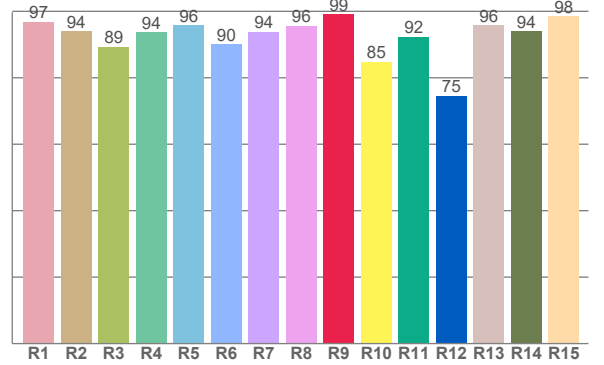
COLOR DETAILS



TM30: 92,4



CRI: 93,6 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,9 | 93,9 | 89,3 | 93,6 | 95,8 | 90,1 | 93,9 | 95,7 | 99,1 | 84,9 | 92,4 | 74,6 | 95,8 | 94,1 | 98,4 |

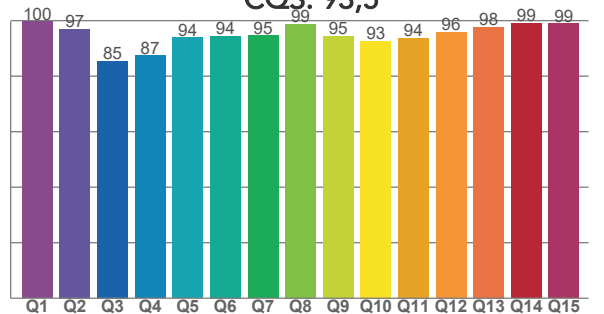
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,7 | 97,5 | 94,2 | 92,7 | 92,0 | 95,6 | 96,9 | 95,3 | 93,8 | 88,0 | 81,6 | 89,8 | 91,3 | 93,8 | 86,5 | 94,4 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 99,7 | 96,9 | 85,5 | 87,4 | 93,9 | 94,4 | 94,6 | 98,8 | 94,5 | 92,6 | 93,7 | 96,0 | 97,7 | 99,0 | 98,9 |

CQS: 93,5



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 |
| 6569 K | 93,6 | 99,1 | 92,4 | 102,0 | 93,5 | 98 | 0,312 | 0,328 | 0,0001 |

TM30 DETAILS

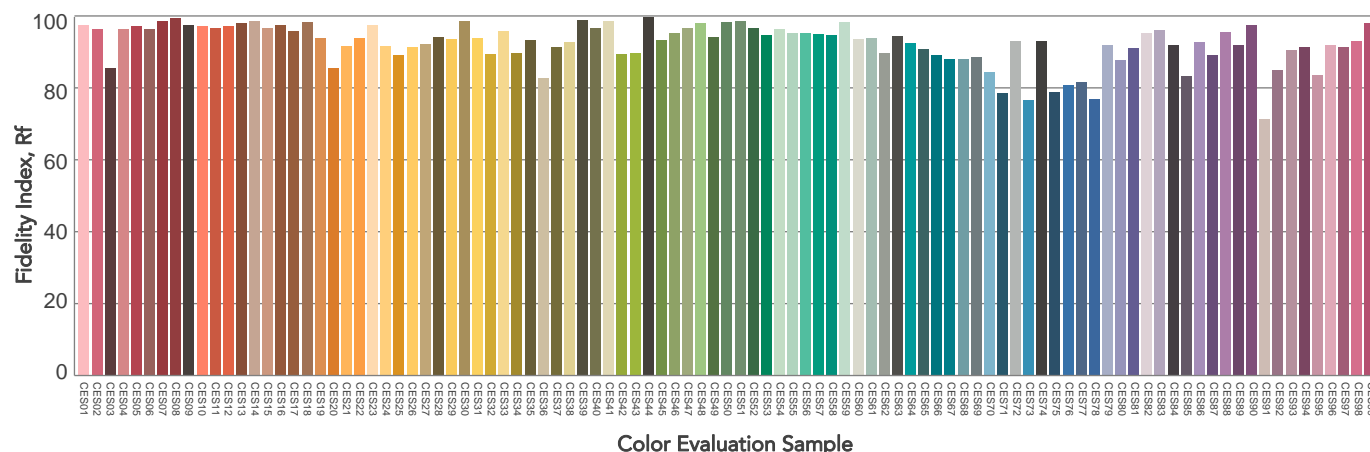
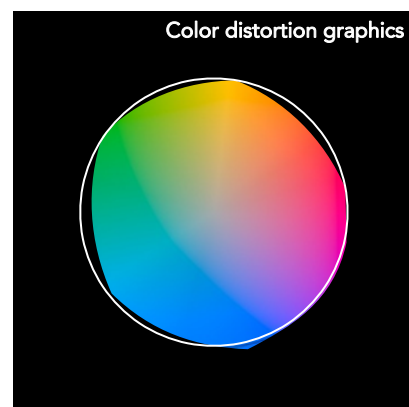
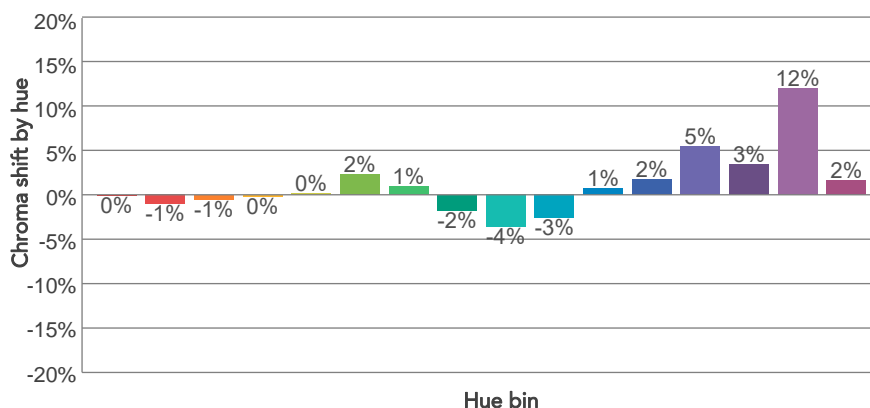
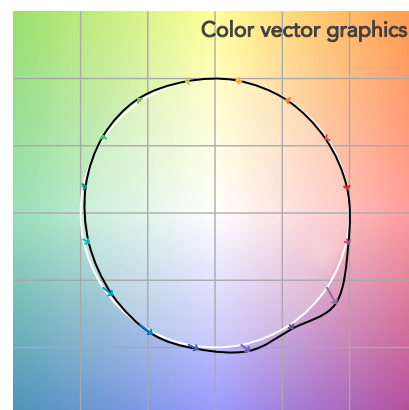
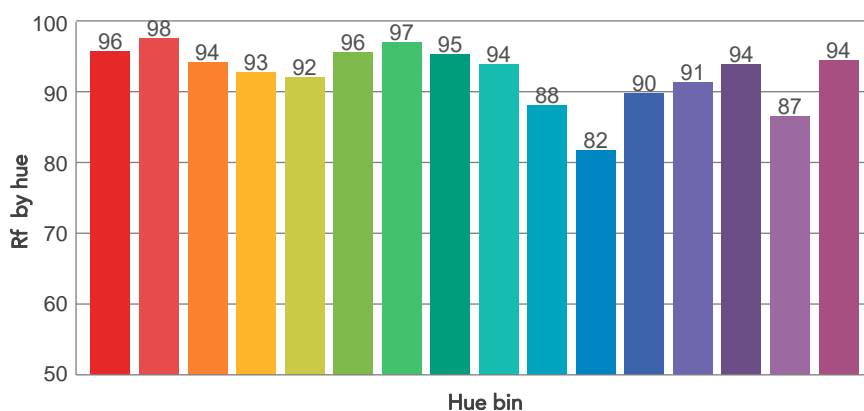
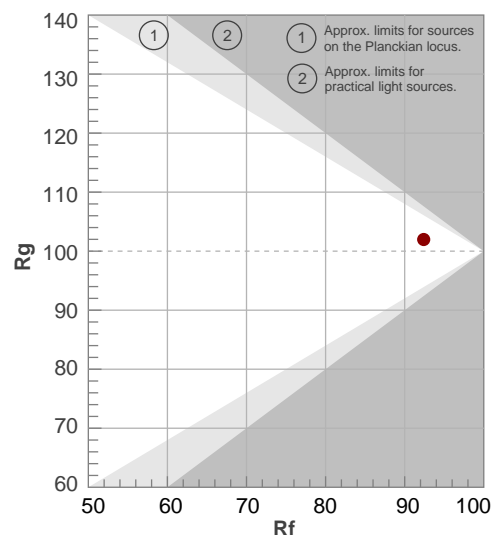
Rf 92,4

Fidelity index Rf

Rg 102,0

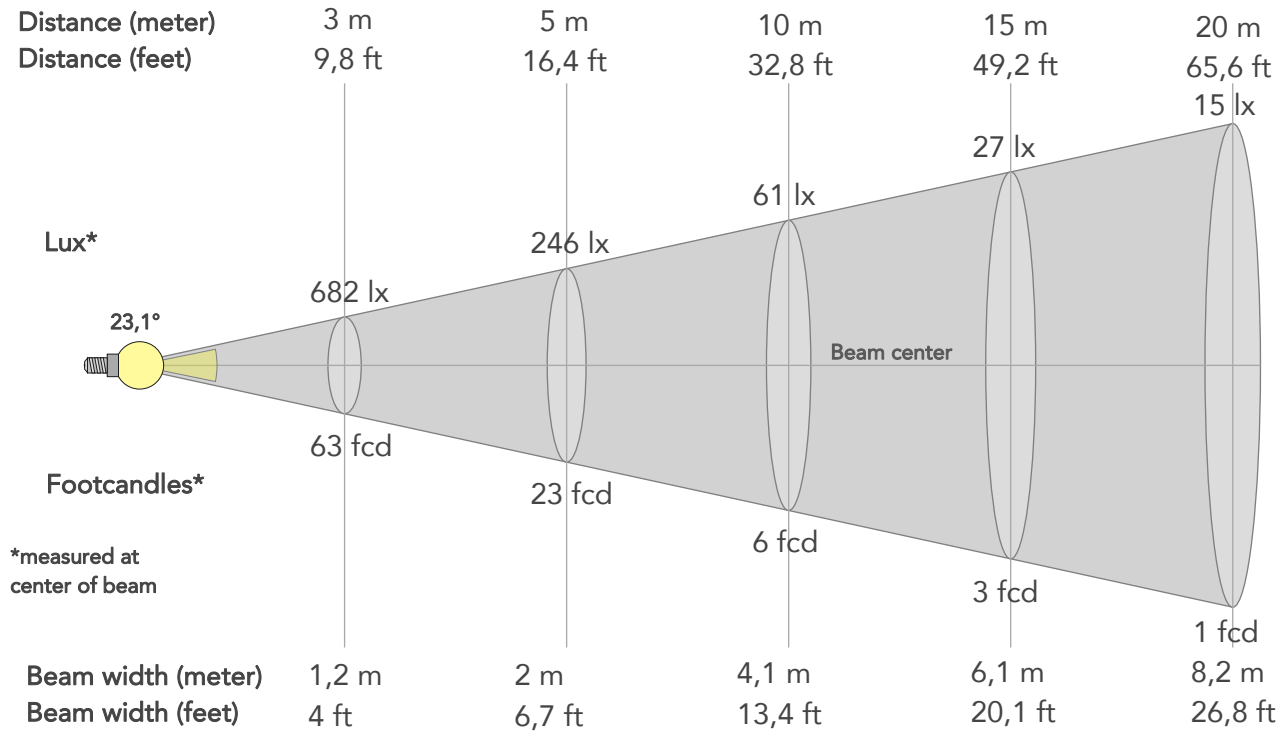
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 96 | 0% | -2% |
| 2 | 98 | -1% | 0% |
| 3 | 94 | -1% | 3% |
| 4 | 93 | 0% | 4% |
| 5 | 92 | 0% | 2% |
| 6 | 96 | 2% | 1% |
| 7 | 97 | 1% | -1% |
| 8 | 95 | -2% | -1% |
| 9 | 94 | -4% | 4% |
| 10 | 88 | -3% | 8% |
| 11 | 82 | 1% | 11% |
| 12 | 90 | 2% | 7% |
| 13 | 91 | 5% | 5% |
| 14 | 94 | 3% | 0% |
| 15 | 87 | 12% | -6% |
| 16 | 94 | 2% | -3% |



BEAM DETAILS

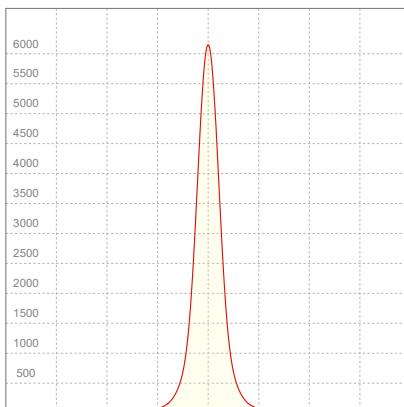
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 23,1° | 46,8° | 72,5° | 97,3% | 93,0% |



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 | 6142lx | 1535lx | 682lx | 384lx | 246lx | 109lx | 61lx | 27lx | 15lx | 10lx | 7lx | 4lx | 2lx |
| Footcand. | 571fcd | 143fcd | 63fcd | 36fcd | 23fcd | 10fcd | 6fcd | 3fcd | 1fcd | 1fcd | 1fcd | 0fcd | 0fcd |
| Beam wid. | 0,4m | 0,8m | 1,2m | 1,6m | 2m | 3,1m | 4,1m | 6,1m | 8,2m | 10,2m | 12,3m | 16,4m | 20,5m |
| Beam wid. | 1,4ft | 2,7ft | 4ft | 5,4ft | 6,7ft | 10,1ft | 13,4ft | 20,1ft | 26,8ft | 33,6ft | 40,3ft | 53,7ft | 67,1ft |

LINEAR DISTRIBUTION DIAGRAM

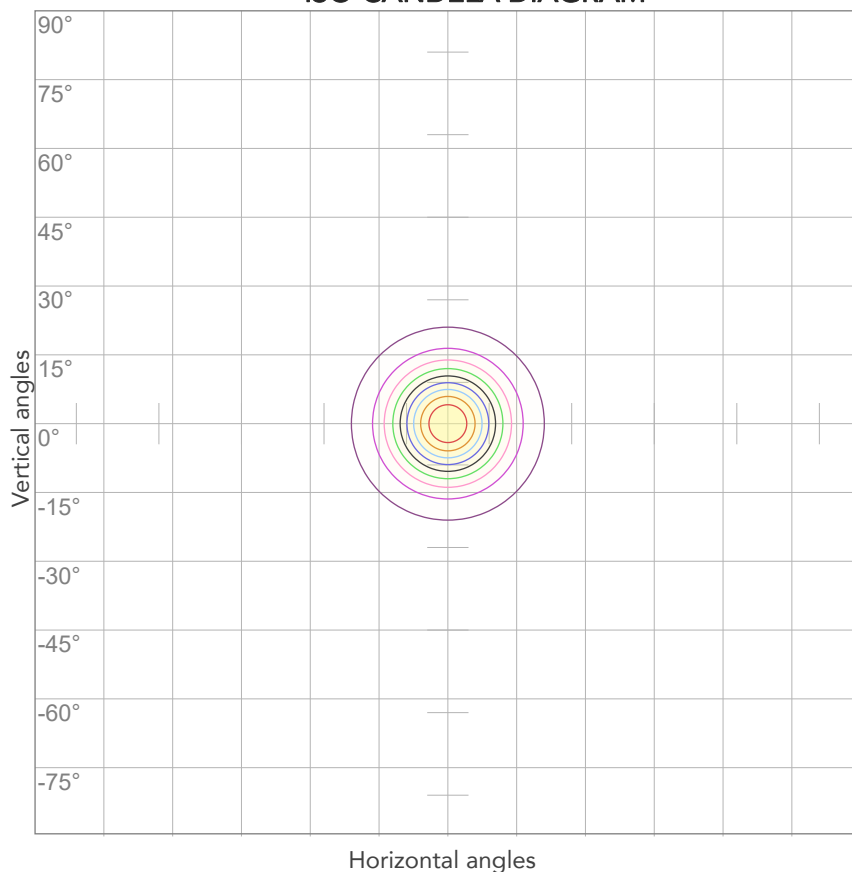


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Efficiency |
|---------------|---------------|-------------|----------|------------|
| 226V | 0,126A | 26,6W | 0,93 | 56lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



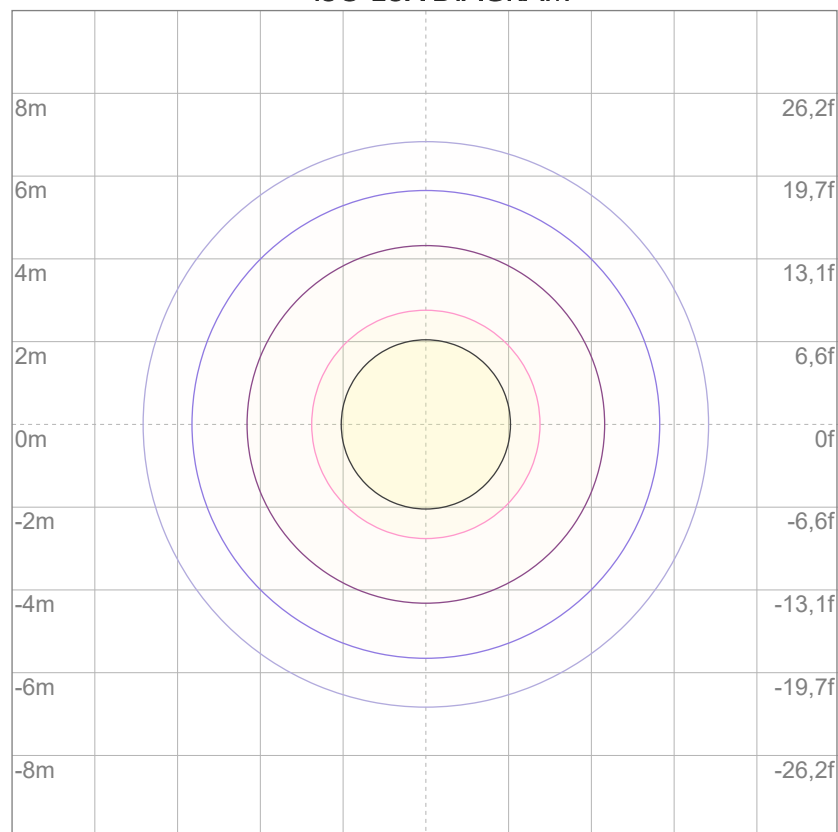
| | |
|-----|---------|
| 10% | 614 cd |
| 20% | 1228 cd |
| 30% | 1843 cd |
| 40% | 2457 cd |
| 50% | 3071 cd |
| 60% | 3685 cd |
| 70% | 4299 cd |
| 80% | 4913 cd |

Conditions:

Number of c-planes: 2

Candela at center: 6142 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 1,84 lx |
| 5% | 3,07 lx |
| 10% | 6,14 lx |
| 30% | 18,4 lx |
| 50% | 30,7 lx |

Conditions:

Number of c-planes: 2

Lux at center: 61,4 lx

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



Total lumen output:

1464 lm

Peak candela output:

1807 cd

Light quality:

CRI: 93,5

Color temperature:

6594 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 40° Filter

Target:

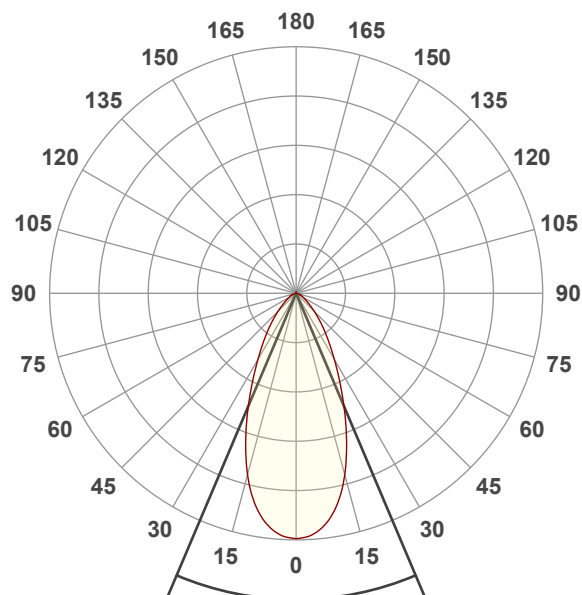
6500K

Operator:

Salvatore Giglio

Date and time:

19/02/2024 17:34:57

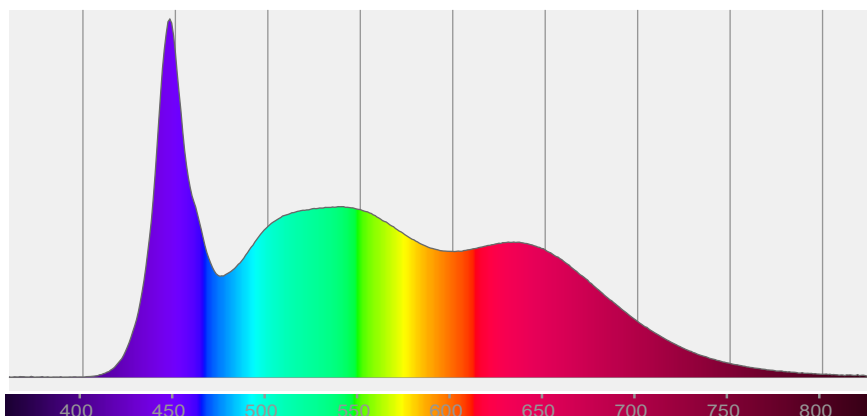


Beam angle 50%: 45,9°

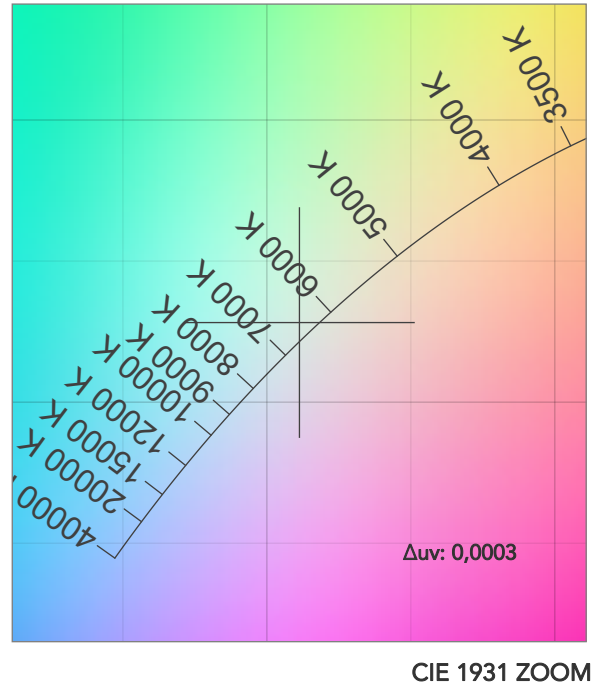
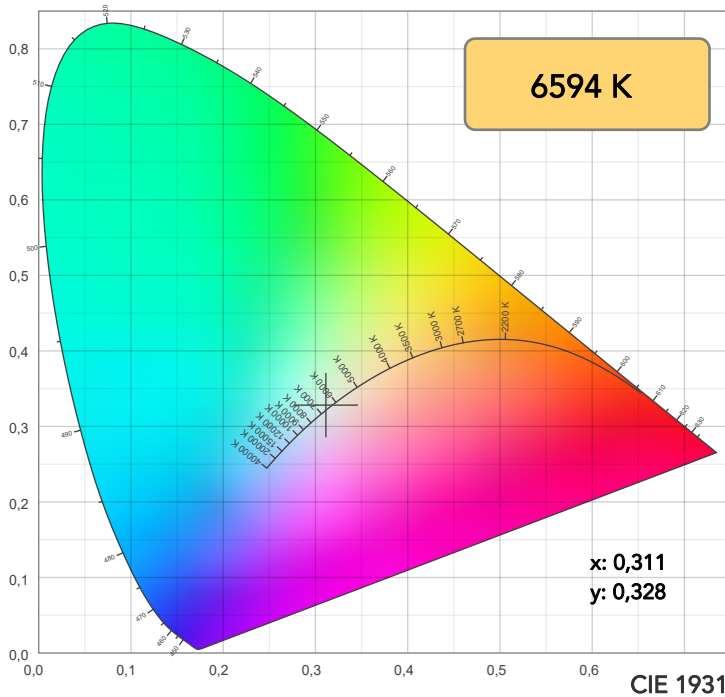
Field angle 10%: 91,2°

Cut off angle 2.5%: 128,3°

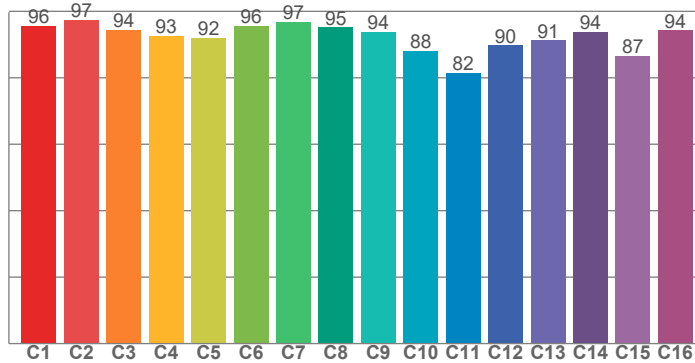
Spectra



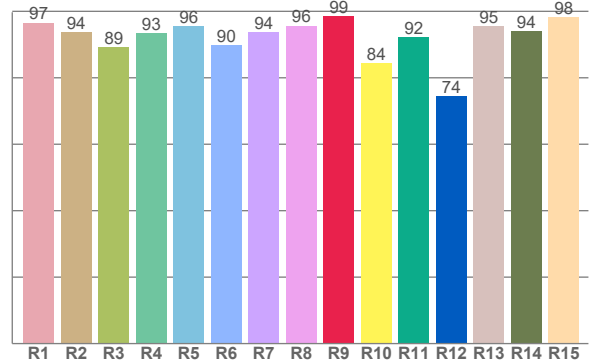
COLOR DETAILS



TM30: 92,3



CRI: 93,5 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,6 | 93,7 | 89,2 | 93,5 | 95,5 | 89,8 | 93,7 | 95,7 | 98,6 | 84,4 | 92,3 | 74,5 | 95,5 | 94,1 | 98,2 |

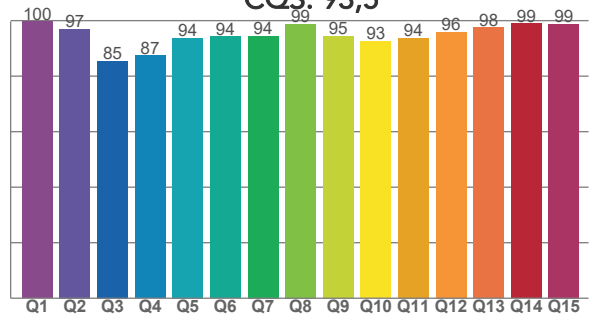
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,7 | 97,4 | 94,5 | 92,7 | 92,0 | 95,6 | 96,8 | 95,2 | 93,8 | 88,0 | 81,5 | 89,7 | 91,3 | 93,8 | 86,5 | 94,3 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 99,7 | 96,9 | 85,5 | 87,4 | 93,8 | 94,2 | 94,5 | 98,7 | 94,5 | 92,6 | 93,7 | 95,9 | 97,6 | 98,9 | 98,8 |

CQS: 93,5



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 |
| 6594 K | 93,5 | 98,6 | 92,3 | 101,9 | 93,5 | 98 | 0,311 | 0,328 | 0,0003 |

TM30 DETAILS

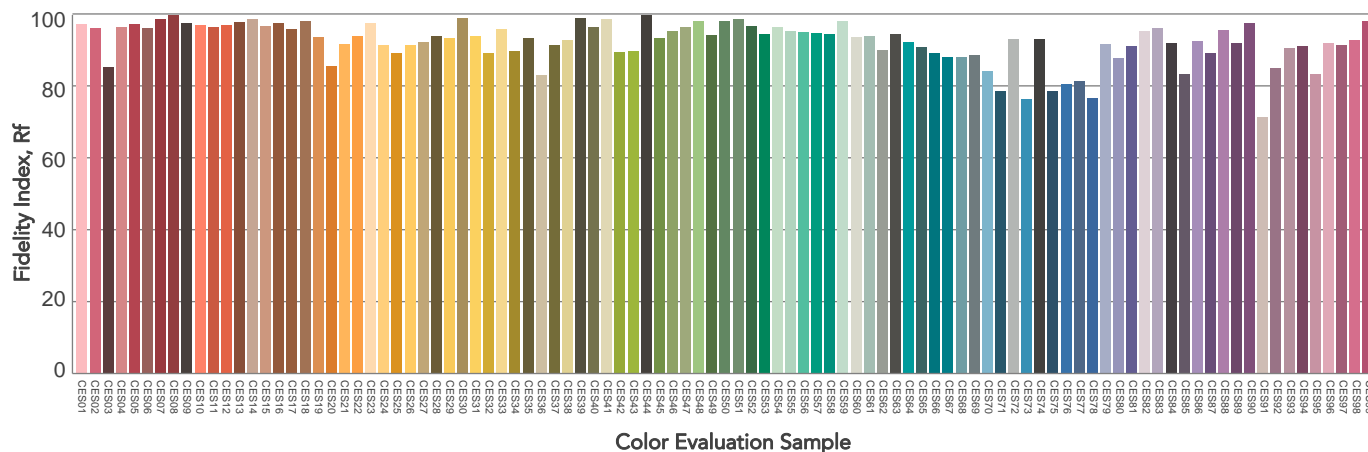
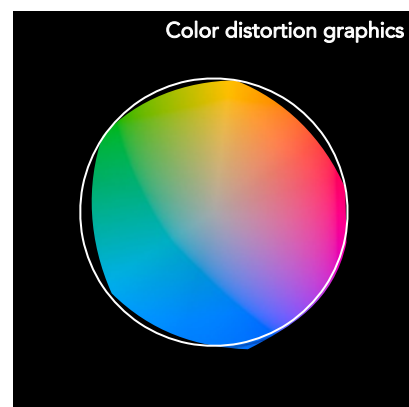
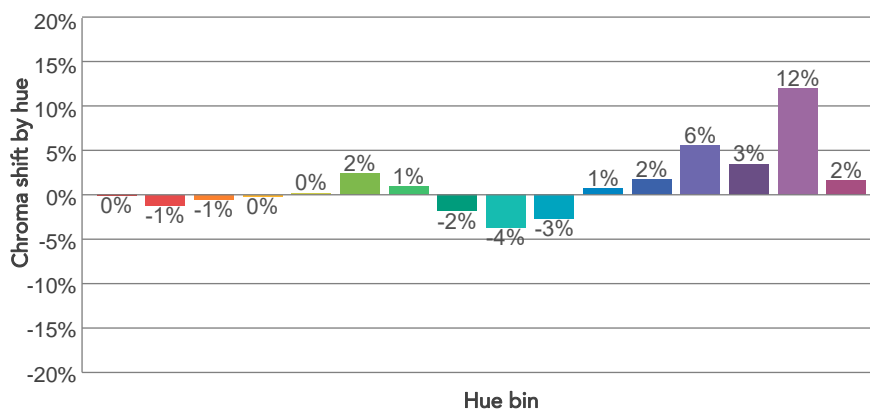
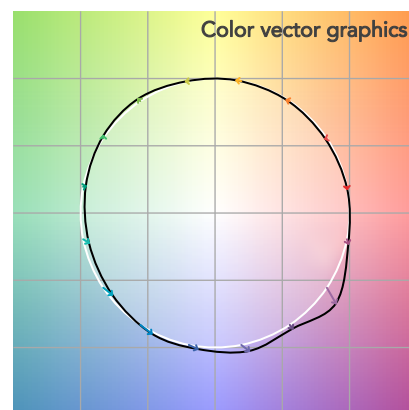
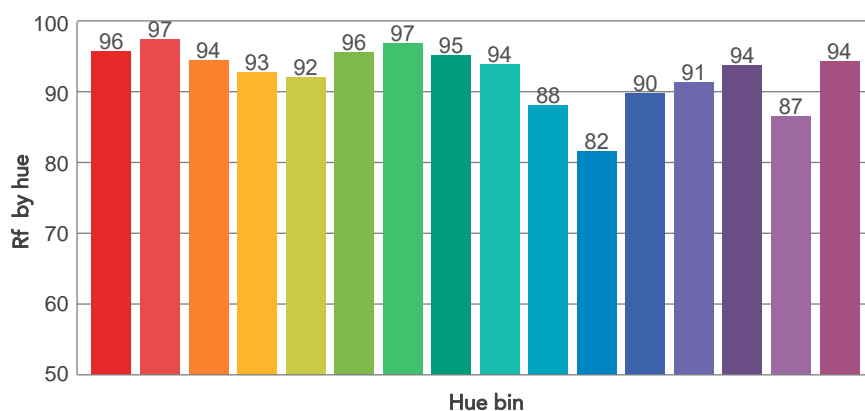
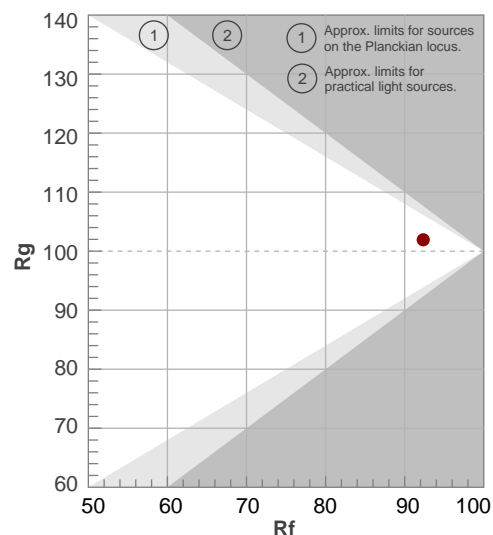
Rf 92,3

Fidelity index Rf

Rg 101,9

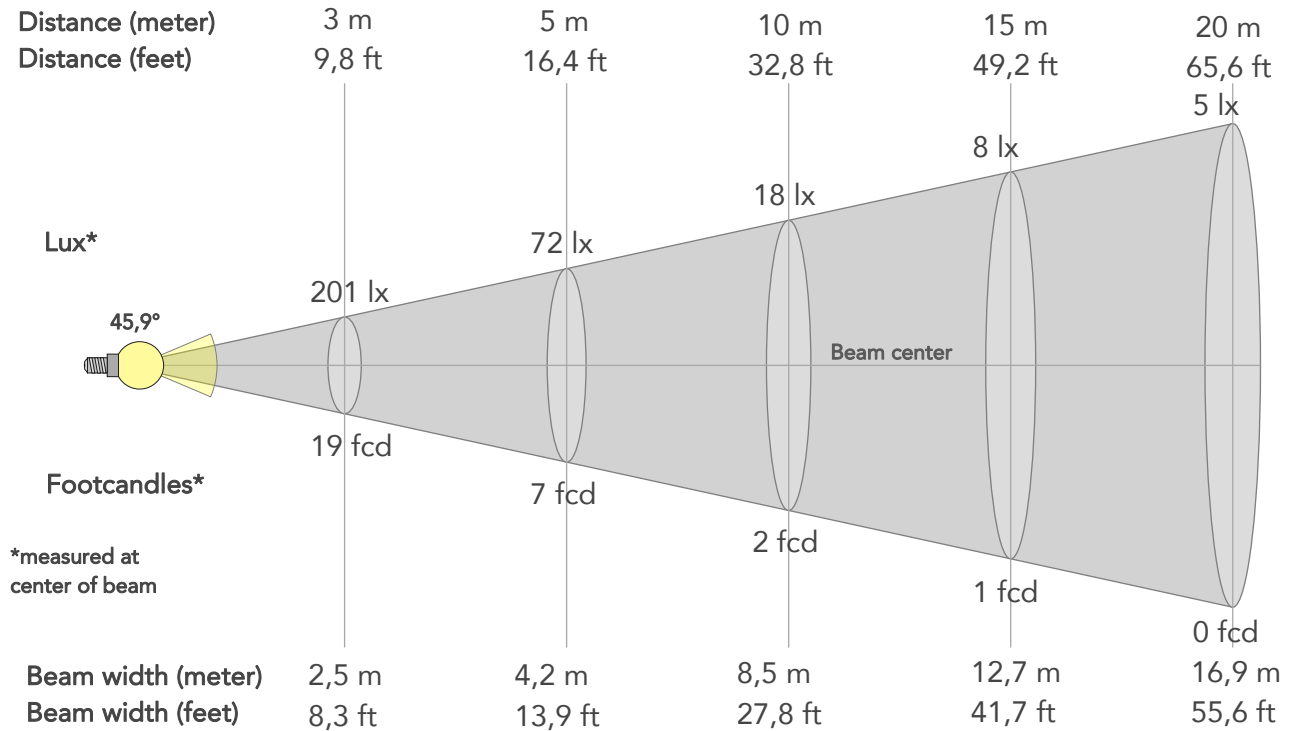
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 96 | 0% | -2% |
| 2 | 97 | -1% | 0% |
| 3 | 94 | -1% | 2% |
| 4 | 93 | 0% | 4% |
| 5 | 92 | 0% | 2% |
| 6 | 96 | 2% | 1% |
| 7 | 97 | 1% | -2% |
| 8 | 95 | -2% | -1% |
| 9 | 94 | -4% | 3% |
| 10 | 88 | -3% | 8% |
| 11 | 82 | 1% | 11% |
| 12 | 90 | 2% | 7% |
| 13 | 91 | 6% | 5% |
| 14 | 94 | 3% | 0% |
| 15 | 87 | 12% | -6% |
| 16 | 94 | 2% | -3% |



BEAM DETAILS

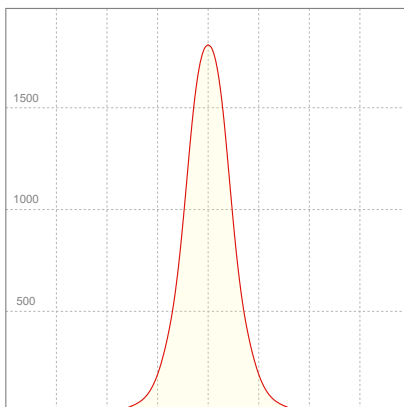
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 45,9° | 91,2° | 128,3° | 94,9% | 85,2% |



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 | 1807lx | 452lx | 201lx | 113lx | 72lx | 32lx | 18lx | 8lx | 5lx | 3lx | 2lx | 1lx | 1lx |
| Footcand. | 168fcd | 42fcd | 19fcd | 10fcd | 7fcd | 3fcd | 2fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,8m | 1,7m | 2,5m | 3,4m | 4,2m | 6,4m | 8,5m | 12,7m | 16,9m | 21,2m | 25,4m | 33,9m | 42,4m |
| Beam wid. | 2,8ft | 5,6ft | 8,3ft | 11,1ft | 13,9ft | 20,8ft | 27,8ft | 41,7ft | 55,6ft | 69,5ft | 83,4ft | 111,2ft | 139ft |

LINEAR DISTRIBUTION DIAGRAM

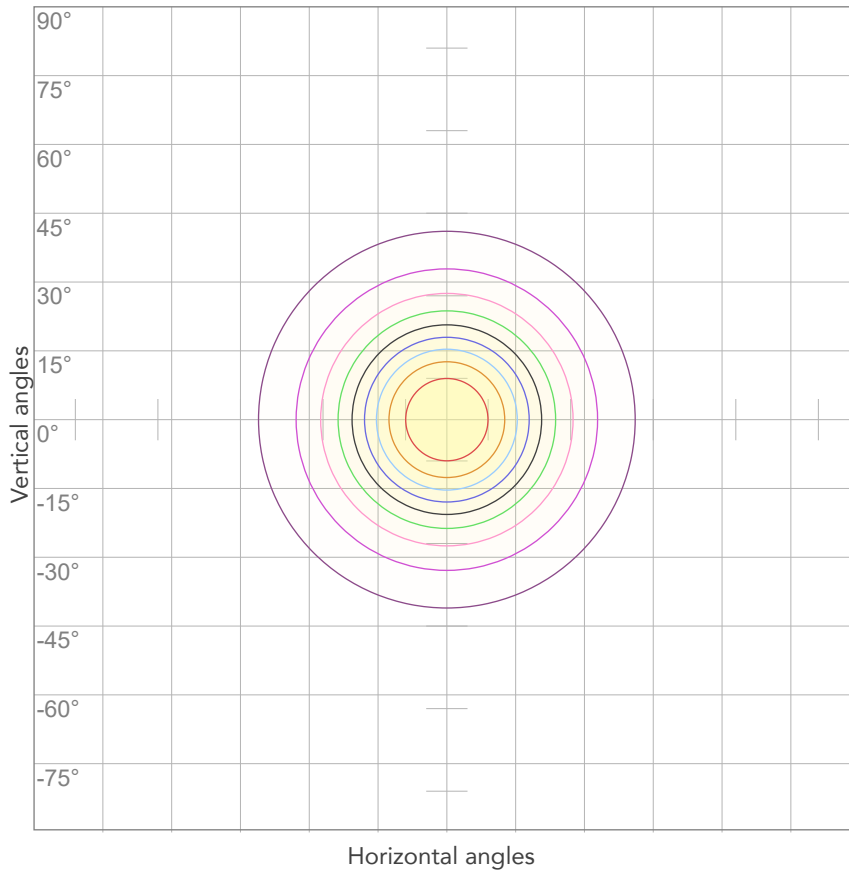


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Efficiency |
|---------------|---------------|-------------|----------|------------|
| 226V | 0,126A | 26,7W | 0,93 | 55lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



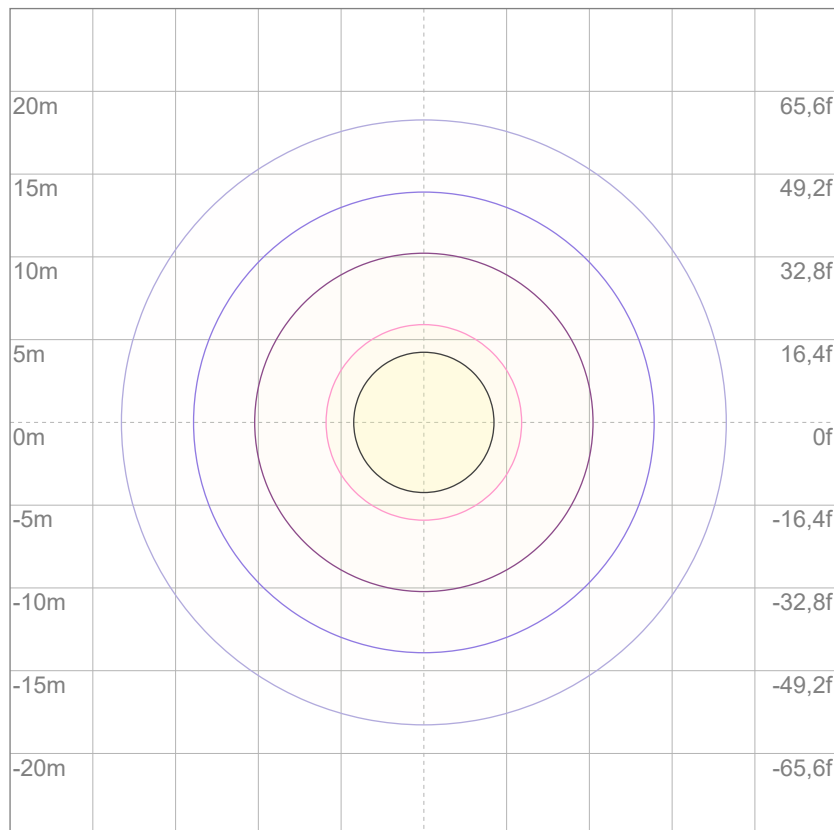
| | |
|-----|---------|
| 10% | 181 cd |
| 20% | 361 cd |
| 30% | 542 cd |
| 40% | 723 cd |
| 50% | 903 cd |
| 60% | 1084 cd |
| 70% | 1265 cd |
| 80% | 1446 cd |

Conditions:

Number of c-planes: 2

Candela at center: 1807 cd

ISO LUX DIAGRAM



| | |
|-----|----------|
| 3% | 0,542 lx |
| 5% | 0,903 lx |
| 10% | 1,81 lx |
| 30% | 5,42 lx |
| 50% | 9,03 lx |

Conditions:

Number of c-planes: 2

Lux at center: 18,1 lx

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



Total lumen output:

1479 lm

Peak candela output:

1348 cd

Light quality:

CRI: 92,5

Color temperature:

6564 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 60° Filter

Target:

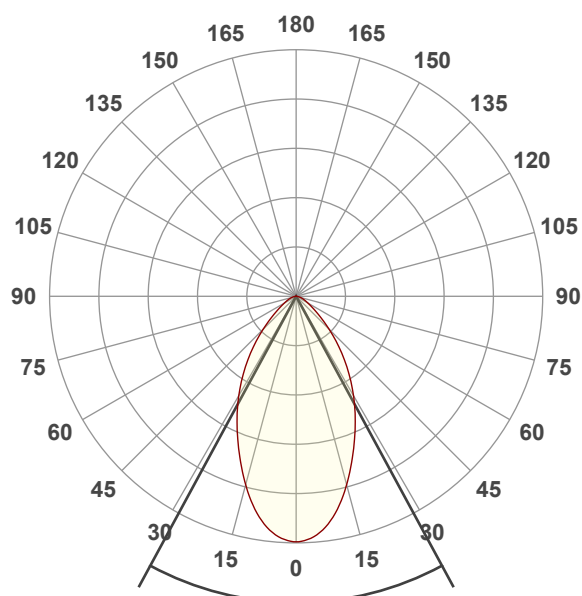
6500K

Operator:

Salvatore Giglio

Date and time:

20/02/2024 10:16:55

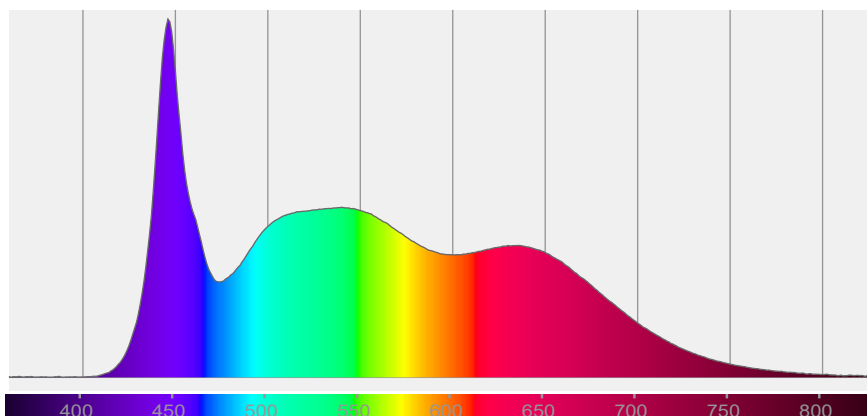


Beam angle 50%: 56,9°

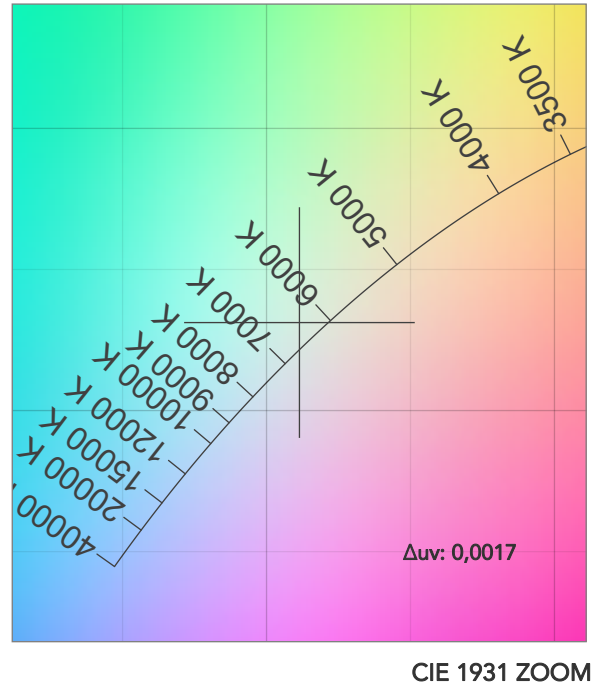
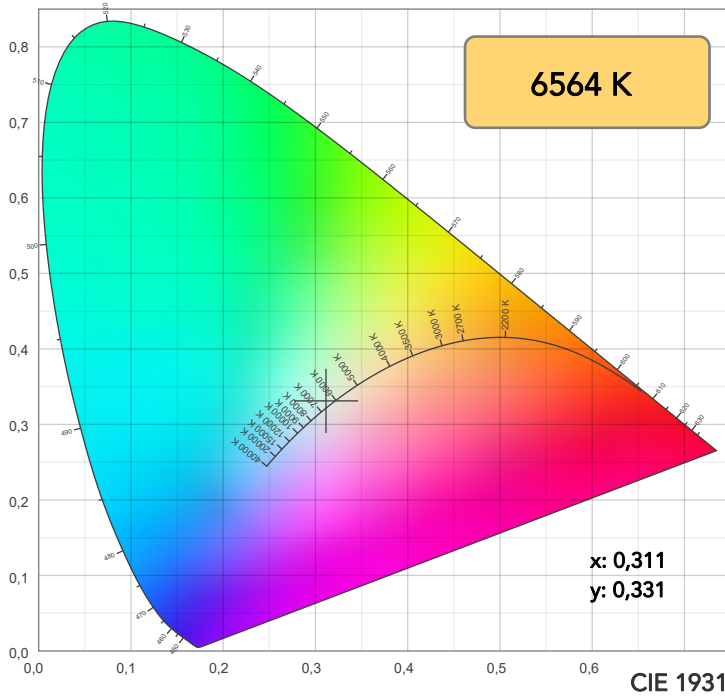
Field angle 10%: 105,4°

Cut off angle 2.5%: 142,8°

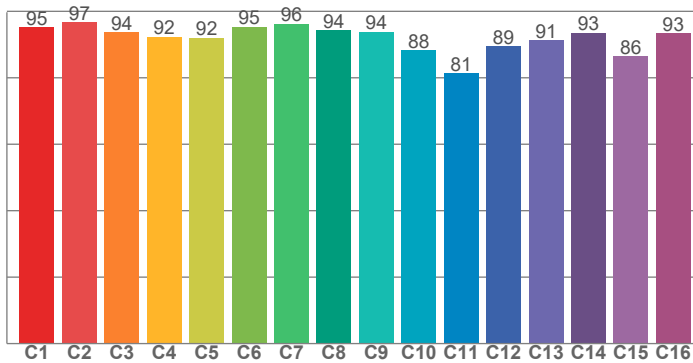
Spectra



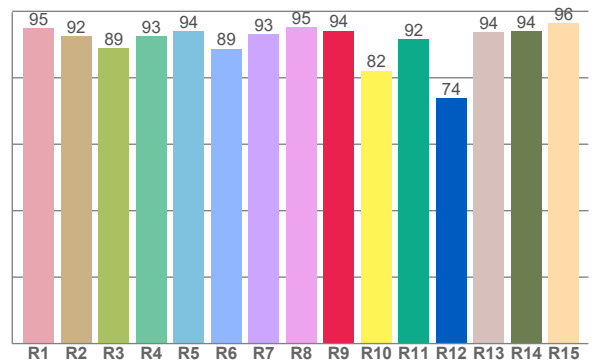
COLOR DETAILS



TM30: 92,1



CRI: 92,5 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94,9 | 92,5 | 88,9 | 92,6 | 94,1 | 88,8 | 93,1 | 95,3 | 94,2 | 82,2 | 91,6 | 73,9 | 93,7 | 94,0 | 96,3 |

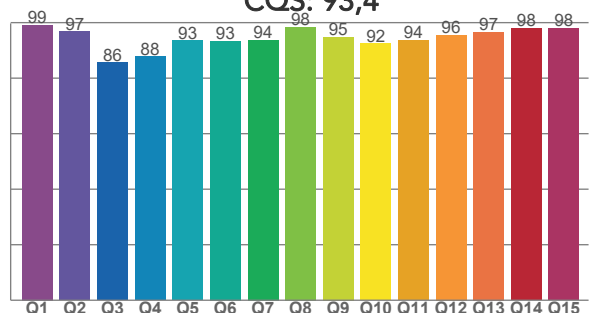
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,1 | 96,7 | 93,7 | 92,4 | 92,0 | 95,3 | 96,3 | 94,3 | 93,8 | 88,3 | 81,3 | 89,4 | 91,3 | 93,5 | 86,5 | 93,4 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 99,2 | 96,8 | 85,7 | 87,7 | 93,5 | 93,4 | 93,8 | 98,3 | 94,9 | 92,4 | 93,6 | 95,5 | 96,7 | 98,0 | 97,9 |

CQS: 93,4



COLOR PARAMETERS

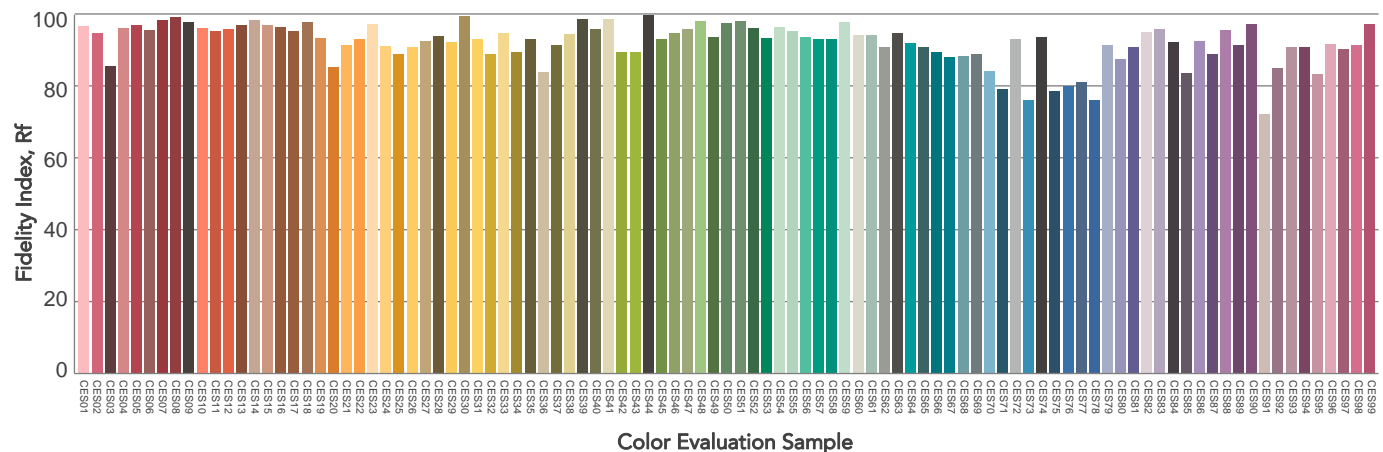
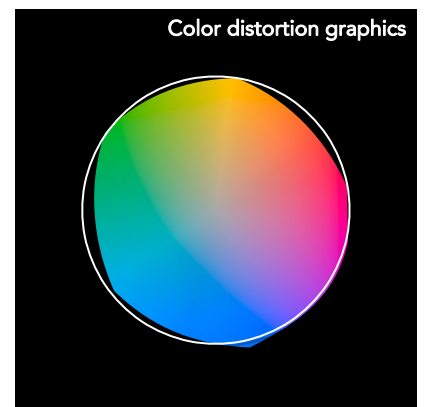
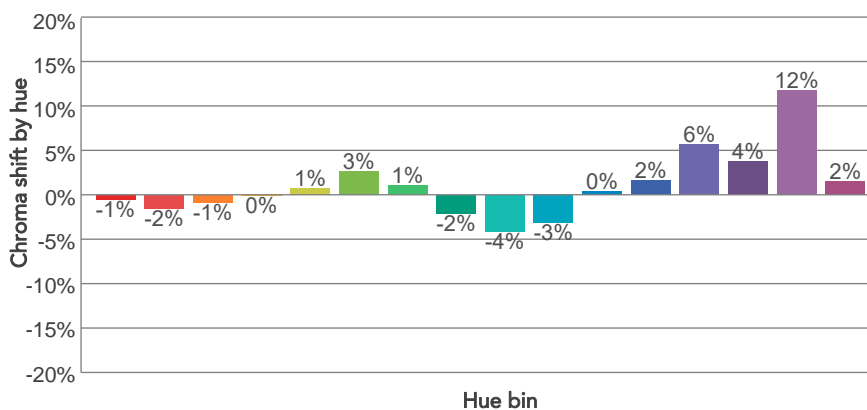
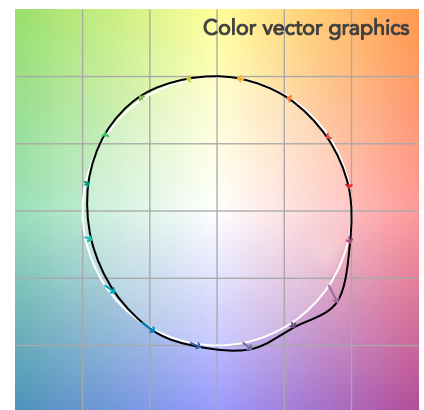
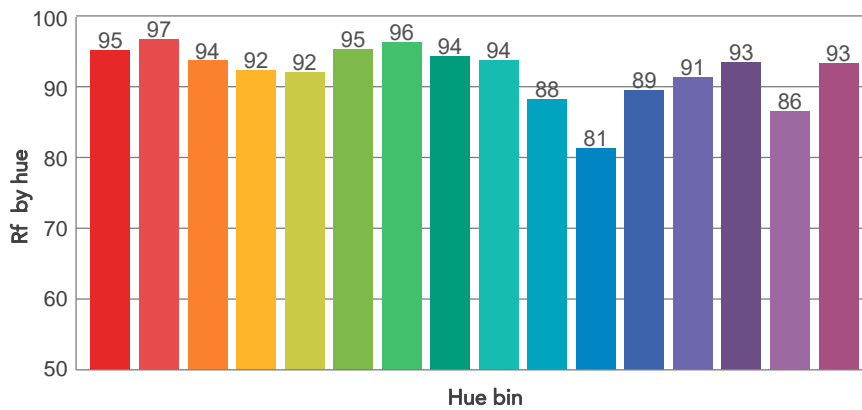
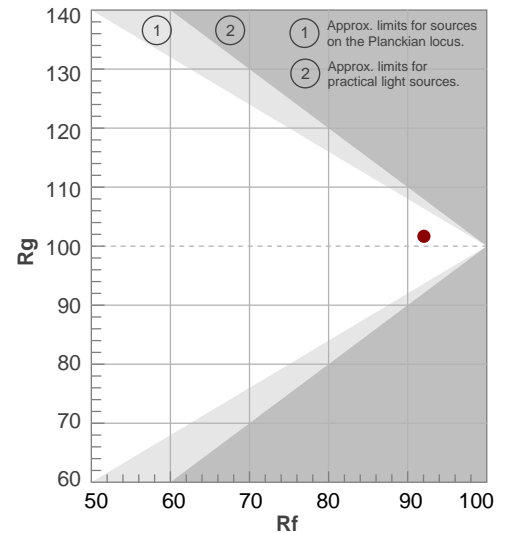
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 6564 K | 92,5 | 94,2 | 92,1 | 101,7 | 93,4 | 98 | 0,311 | 0,331 | 0,0017 |

TM30 DETAILS

Rf 92,1
Fidelity index Rf

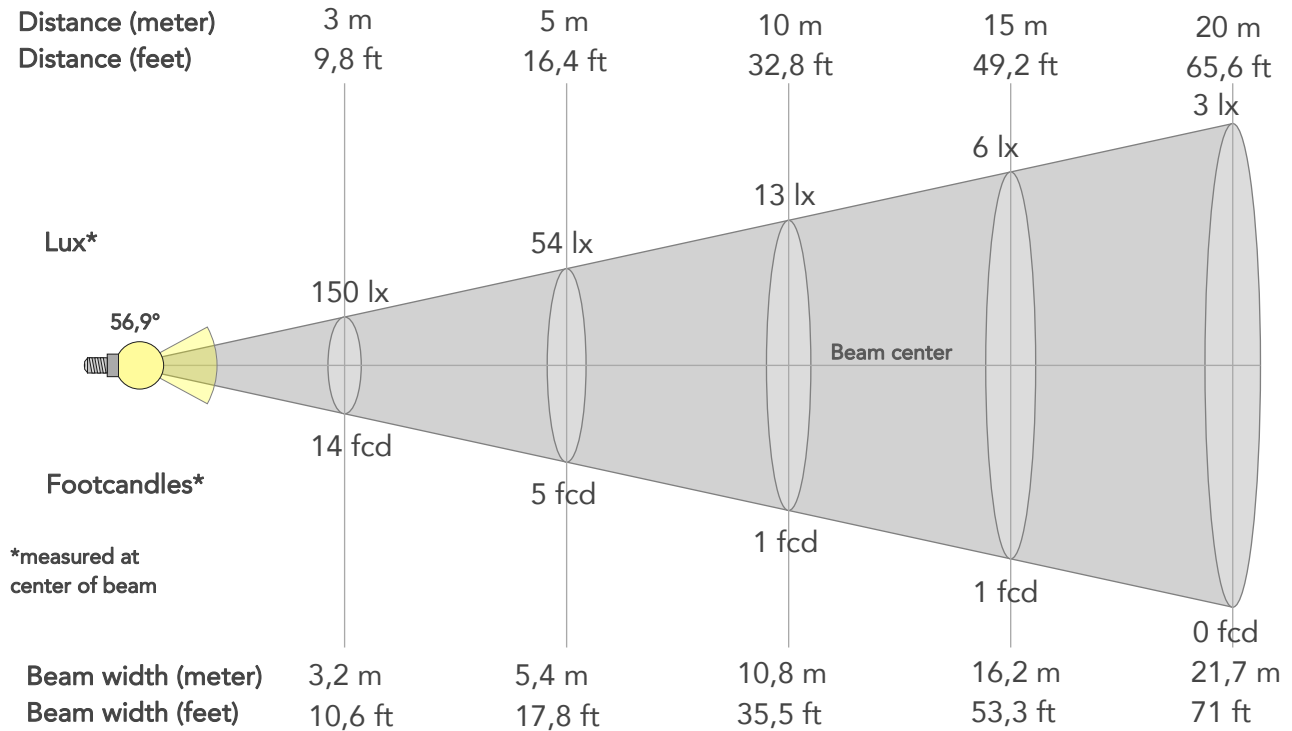
Rg 101,7
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 95 | -1% | -2% |
| 2 | 97 | -2% | 0% |
| 3 | 94 | -1% | 3% |
| 4 | 92 | 0% | 4% |
| 5 | 92 | 1% | 2% |
| 6 | 95 | 3% | 0% |
| 7 | 96 | 1% | -2% |
| 8 | 94 | -2% | -2% |
| 9 | 94 | -4% | 3% |
| 10 | 88 | -3% | 8% |
| 11 | 81 | 0% | 11% |
| 12 | 89 | 2% | 7% |
| 13 | 91 | 6% | 5% |
| 14 | 93 | 4% | 0% |
| 15 | 86 | 12% | -6% |
| 16 | 93 | 2% | -4% |



BEAM DETAILS

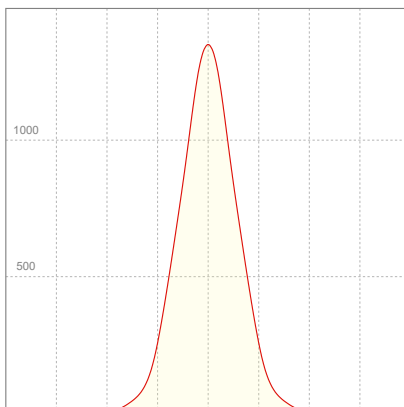
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 56,9° | 105,4° | 142,8° | 93,7% | 81,1% |



BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|-----------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 1348lx | 337lx | 150lx | 84lx | 54lx | 24lx | 13lx | 6lx | 3lx | 2lx | 1lx | 1lx | 1lx |
| Footcand. | 125fcd | 31fcd | 14fcd | 8fcd | 5fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 1,1m | 2,2m | 3,2m | 4,3m | 5,4m | 8,1m | 10,8m | 16,2m | 21,7m | 27,1m | 32,5m | 43,3m | 54,1m |
| Beam wid. | 3,6ft | 7,1ft | 10,6ft | 14,2ft | 17,8ft | 26,6ft | 35,5ft | 53,3ft | 71ft | 88,8ft | 106,5ft | 142,1ft | 177,6ft |

LINEAR DISTRIBUTION DIAGRAM

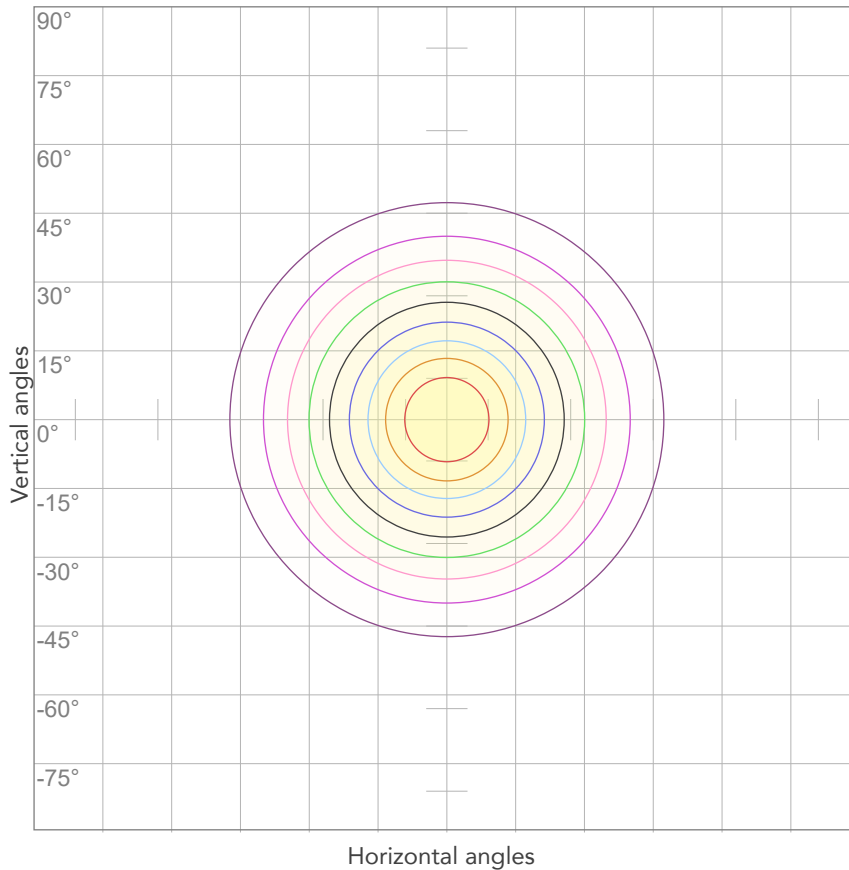


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Efficiency |
|---------------|---------------|-------------|----------|------------|
| 225V | 0,128A | 27,1W | 0,94 | 54lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



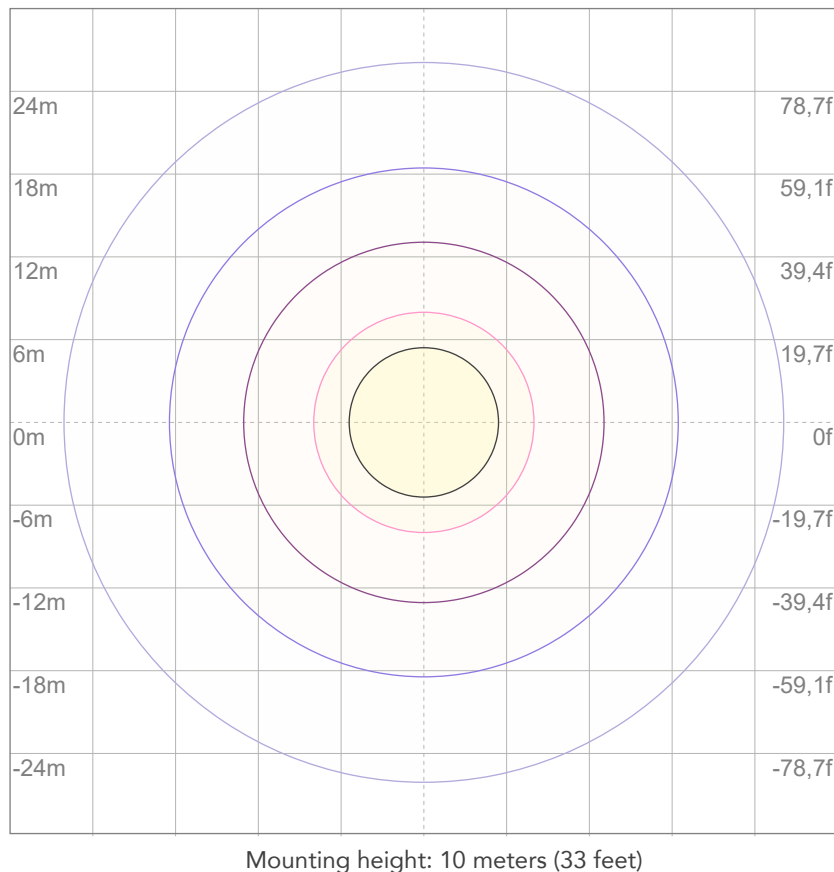
| | |
|-----|---------|
| 10% | 135 cd |
| 20% | 270 cd |
| 30% | 404 cd |
| 40% | 539 cd |
| 50% | 674 cd |
| 60% | 809 cd |
| 70% | 943 cd |
| 80% | 1078 cd |

Conditions:

Number of c-planes: 2

Candela at center: 1348 cd

ISO LUX DIAGRAM



| | |
|-----|----------|
| 3% | 0,404 lx |
| 5% | 0,674 lx |
| 10% | 1,35 lx |
| 30% | 4,04 lx |
| 50% | 6,74 lx |

Conditions:

Number of c-planes: 2

Lux at center: 13,5 lx

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



Total lumen output:

2117 lm

Peak candela output:

4633 cd

Light quality:

CRI: 92,7

Color temperature:

6491 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 10°x 60° Filter

Target:

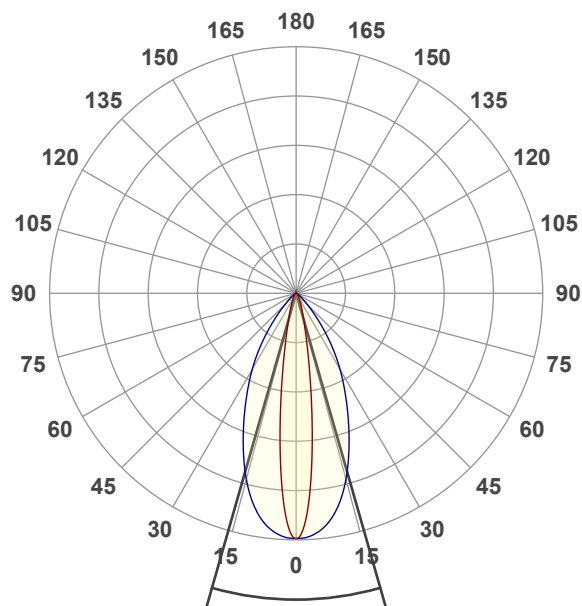
6500K

Operator:

Salvatore Giglio

Date and time:

20/02/2024 10:21:59

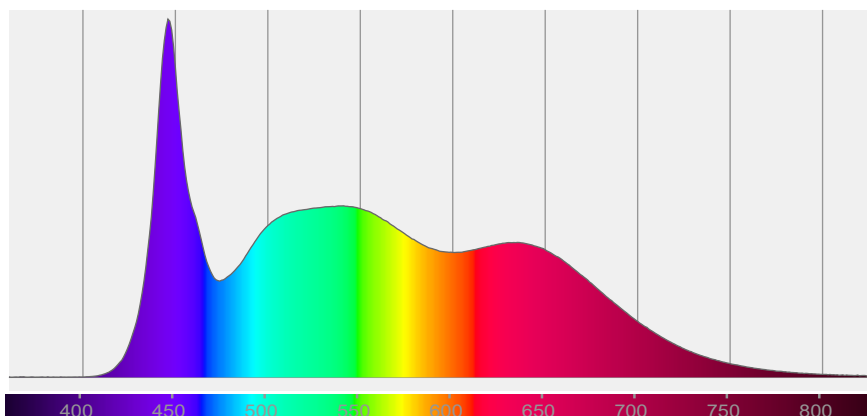


Beam angle 50%: 31,9°

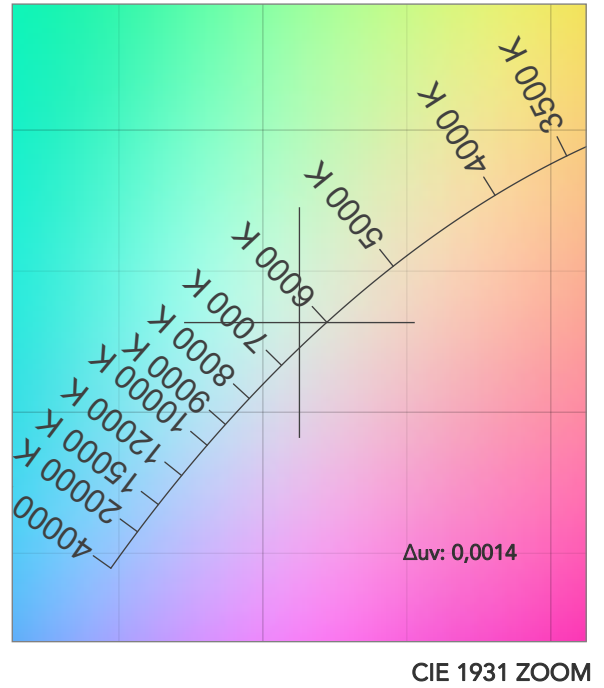
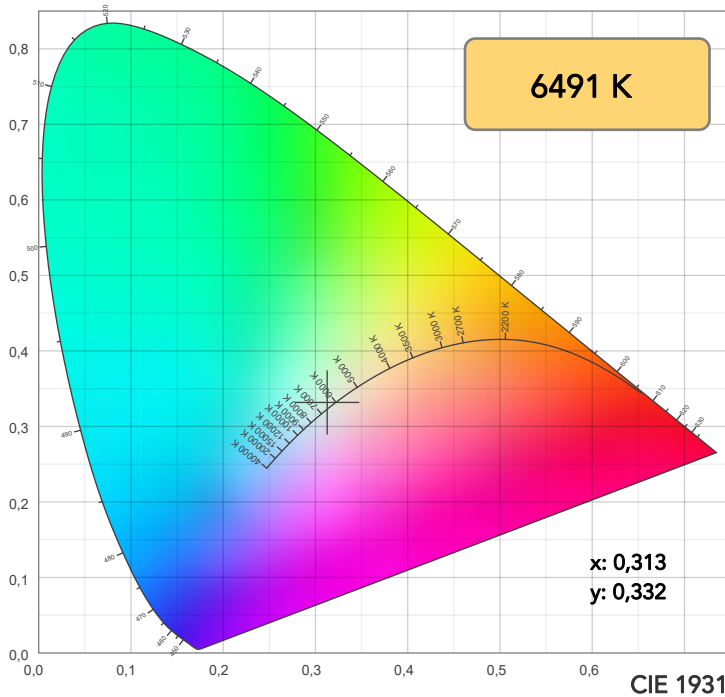
Field angle 10%: 58,8°

Cut off angle 2.5%: 83,9°

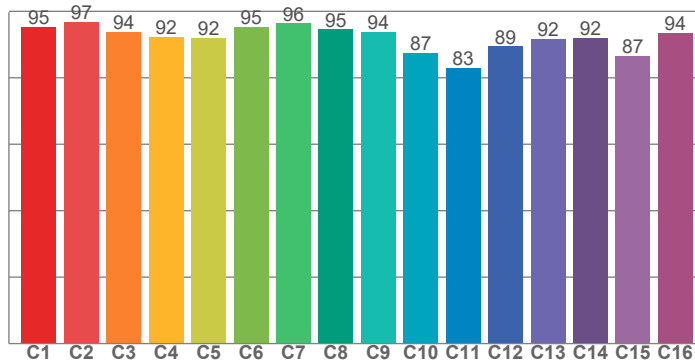
Spectra



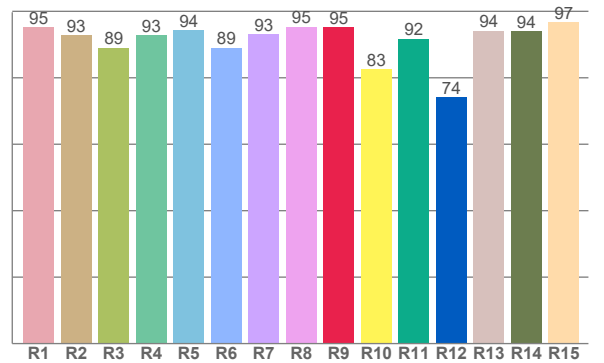
COLOR DETAILS



TM30: 92,1



CRI: 92,7 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,3 | 92,8 | 89,0 | 92,8 | 94,4 | 89,0 | 93,1 | 95,4 | 95,2 | 82,7 | 91,8 | 74,2 | 94,1 | 94,0 | 96,8 |

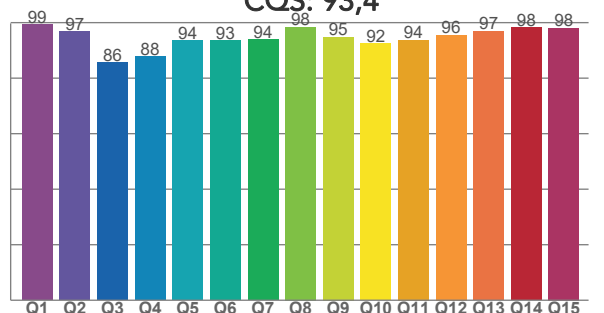
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,3 | 96,8 | 93,7 | 92,4 | 92,0 | 95,3 | 96,3 | 94,5 | 93,9 | 87,5 | 83,0 | 89,5 | 91,7 | 92,0 | 86,6 | 93,5 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 99,3 | 96,8 | 85,6 | 87,8 | 93,6 | 93,5 | 93,9 | 98,4 | 94,8 | 92,4 | 93,7 | 95,6 | 96,9 | 98,2 | 98,1 |

CQS: 93,4



COLOR PARAMETERS

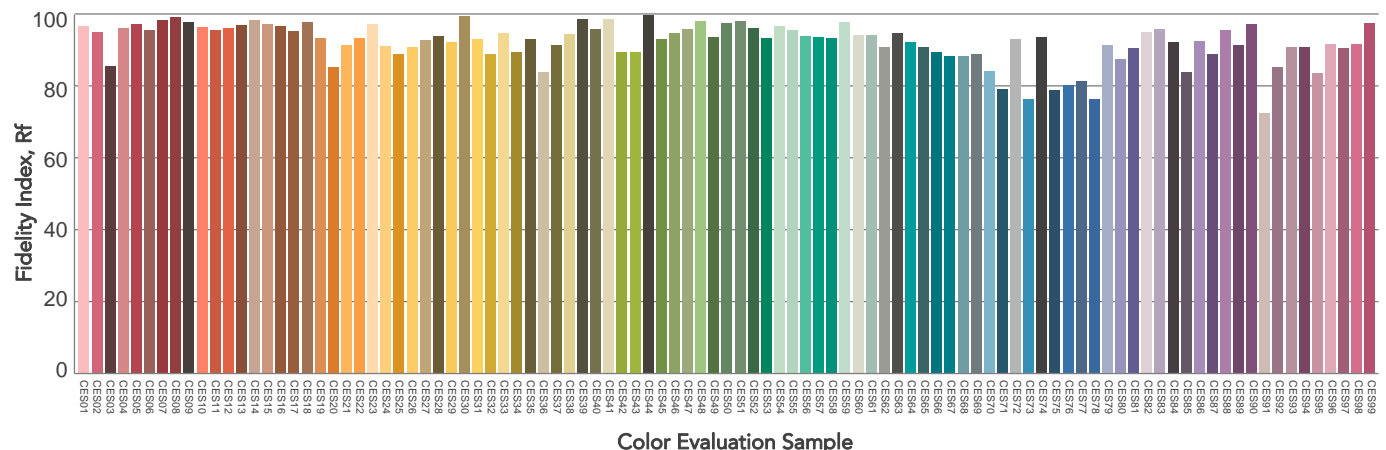
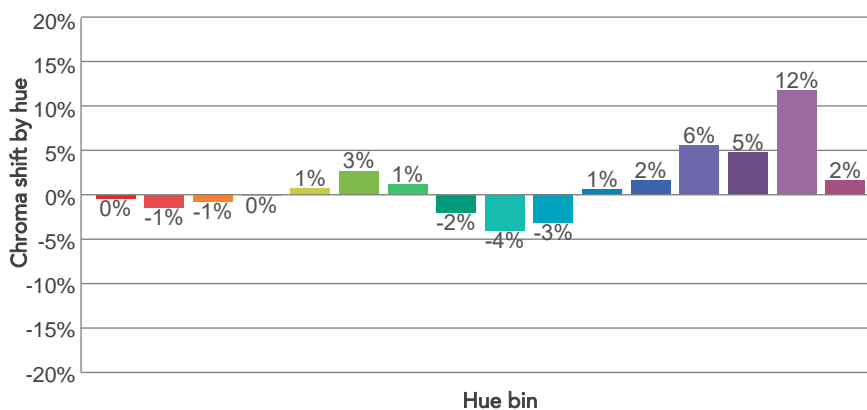
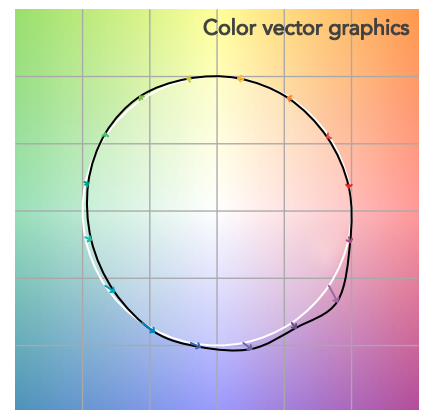
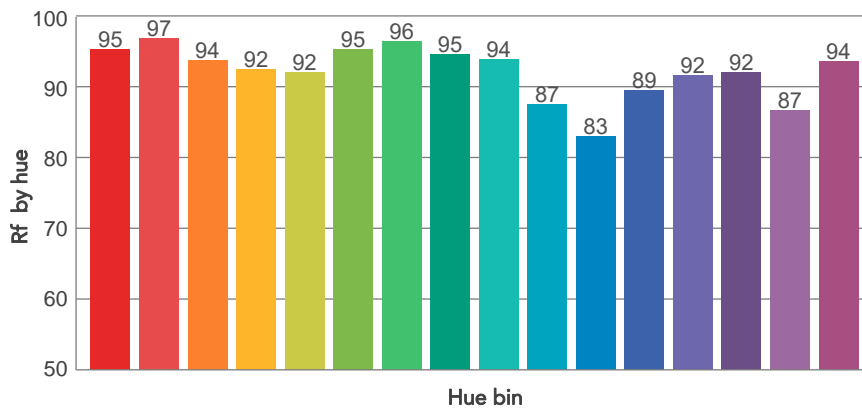
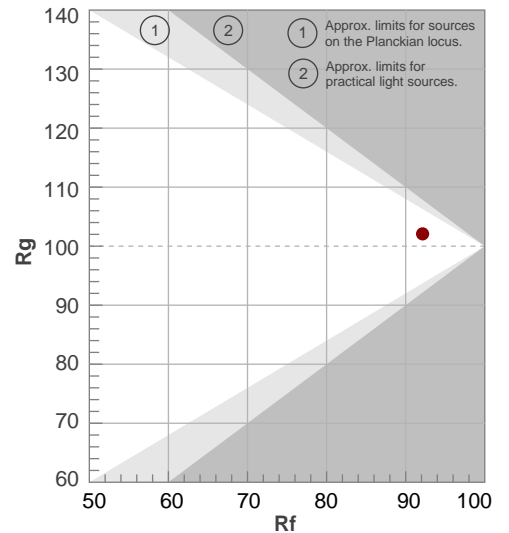
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 6491 K | 92,7 | 95,2 | 92,1 | 102,1 | 93,4 | 98 | 0,313 | 0,332 | 0,0014 |

TM30 DETAILS

Rf 92,1
Fidelity index Rf

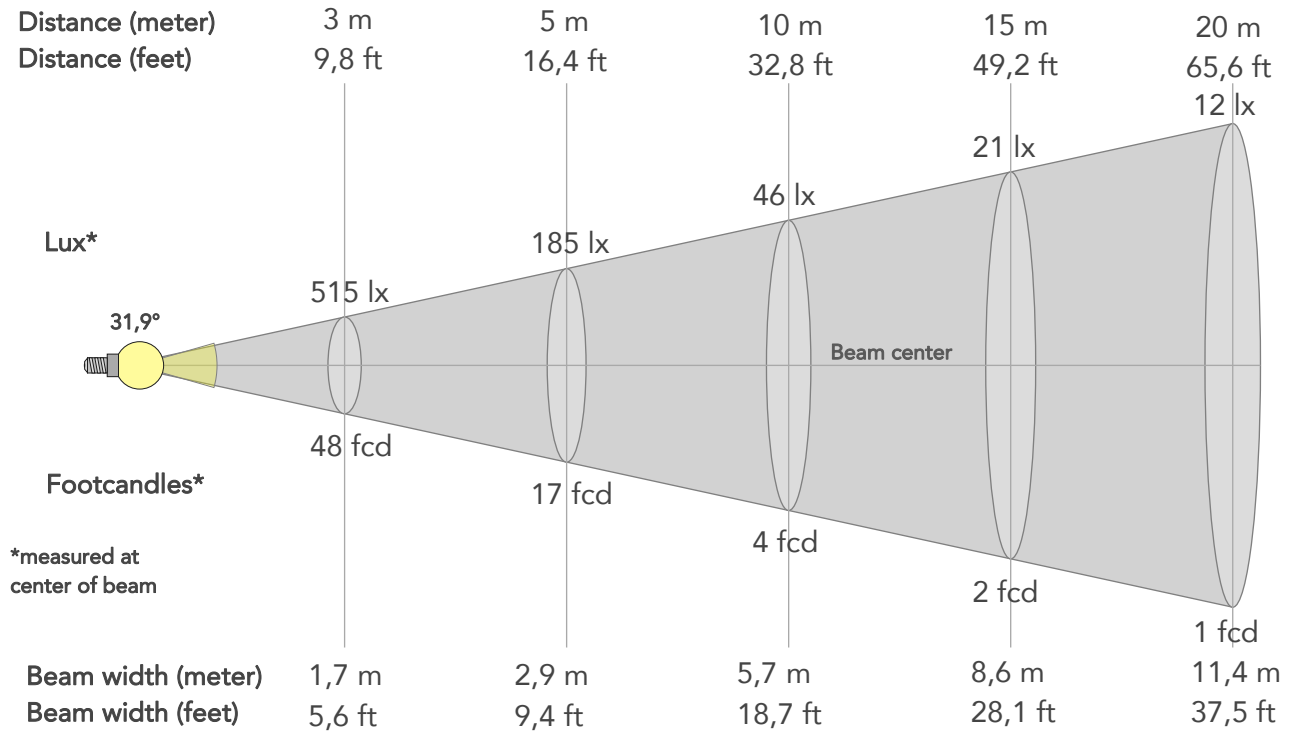
Rg 102,1
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 95 | 0% | -2% |
| 2 | 97 | -1% | 0% |
| 3 | 94 | -1% | 3% |
| 4 | 92 | 0% | 4% |
| 5 | 92 | 1% | 2% |
| 6 | 95 | 3% | 0% |
| 7 | 96 | 1% | -2% |
| 8 | 95 | -2% | -2% |
| 9 | 94 | -4% | 3% |
| 10 | 87 | -3% | 7% |
| 11 | 83 | 1% | 11% |
| 12 | 89 | 2% | 7% |
| 13 | 92 | 6% | 5% |
| 14 | 92 | 5% | 0% |
| 15 | 87 | 12% | -6% |
| 16 | 94 | 2% | -4% |



BEAM DETAILS

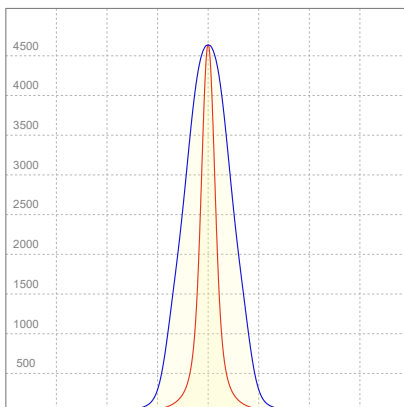
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 31,9° | 58,8° | 83,9° | 97,3% | 92,1% |



BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|-----------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 4631lx | 1158lx | 515lx | 289lx | 185lx | 82lx | 46lx | 21lx | 12lx | 7lx | 5lx | 3lx | 2lx |
| Footcand. | 430fcd | 108fcd | 48fcd | 27fcd | 17fcd | 8fcd | 4fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,6m | 1,1m | 1,7m | 2,3m | 2,9m | 4,3m | 5,7m | 8,6m | 11,4m | 14,3m | 17,1m | 22,9m | 28,6m |
| Beam wid. | 1,9ft | 3,8ft | 5,6ft | 7,5ft | 9,4ft | 14,1ft | 18,7ft | 28,1ft | 37,5ft | 46,9ft | 56,2ft | 75ft | 93,7ft |

LINEAR DISTRIBUTION DIAGRAM

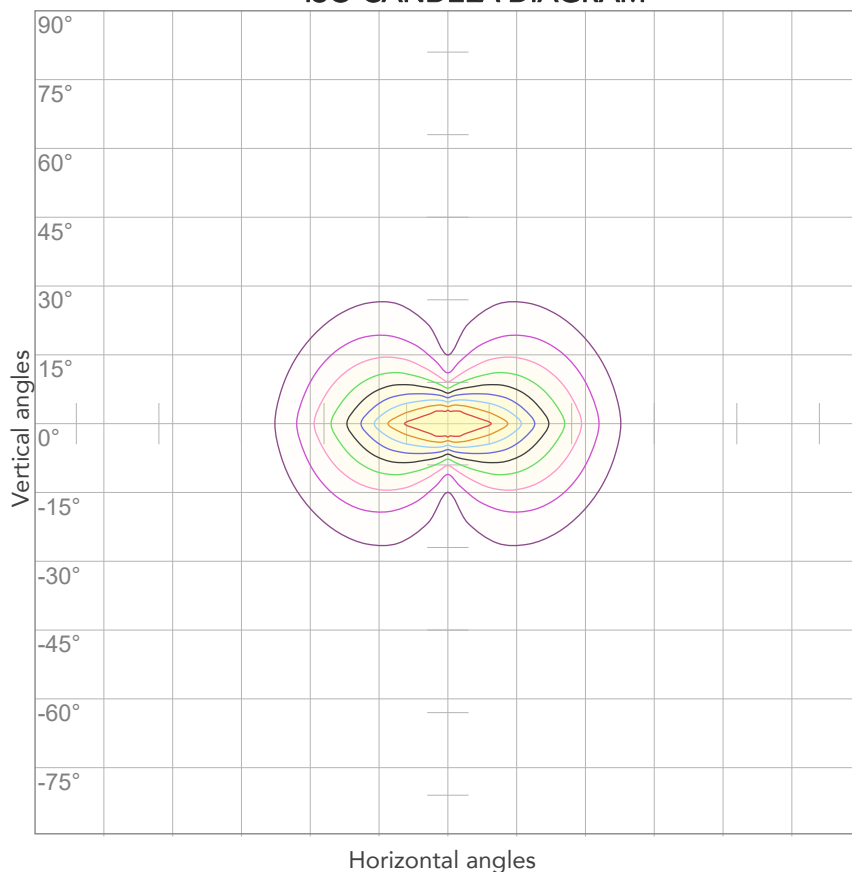


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Effeciency |
|---------------|---------------|-------------|----------|------------|
| 225V | 0,128A | 27,0W | 0,94 | 78lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



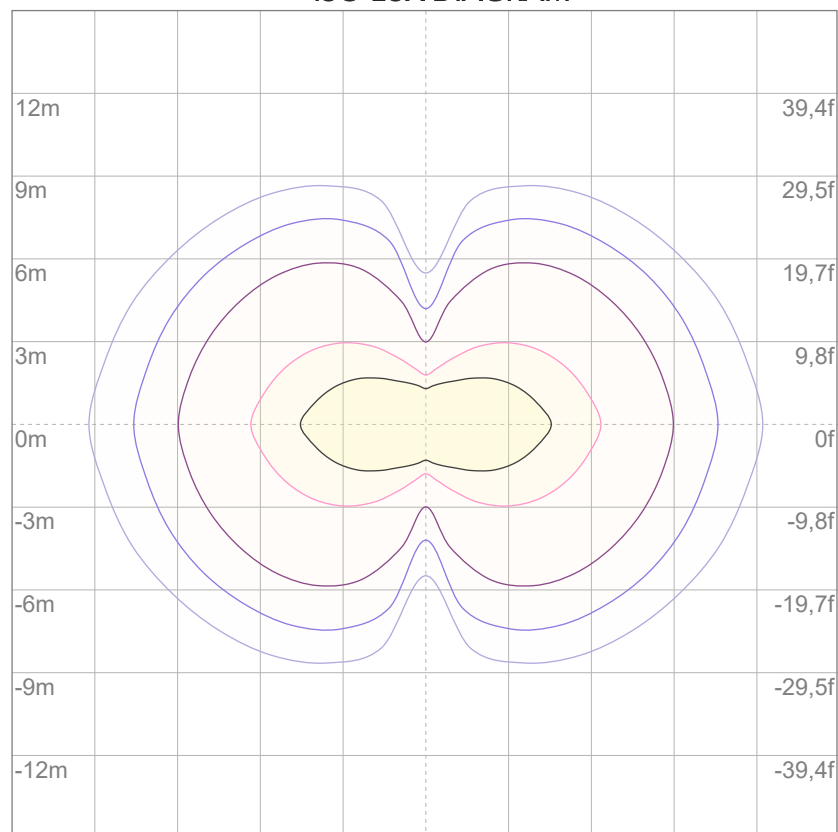
| | |
|-----|---------|
| 10% | 463 cd |
| 20% | 926 cd |
| 30% | 1389 cd |
| 40% | 1852 cd |
| 50% | 2316 cd |
| 60% | 2779 cd |
| 70% | 3242 cd |
| 80% | 3705 cd |

Conditions:

Number of c-planes: 4

Candela at center: 4631 cd

ISO LUX DIAGRAM



| | |
|-----|---------|
| 3% | 1,39 lx |
| 5% | 2,32 lx |
| 10% | 4,63 lx |
| 30% | 13,9 lx |
| 50% | 23,2 lx |

Conditions:

Number of c-planes: 4

Lux at center: 46,3 lx

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



Total lumen output:

1377 lm

Peak candela output:

2273 cd

Light quality:

CRI: 93,5

Color temperature:

6602 K

PRODUCT NAME:

ARCSPOTS VW

MEASURAMENT CONDITIONS:

Beam angle:

10° + 30°x 60° Filter

Target:

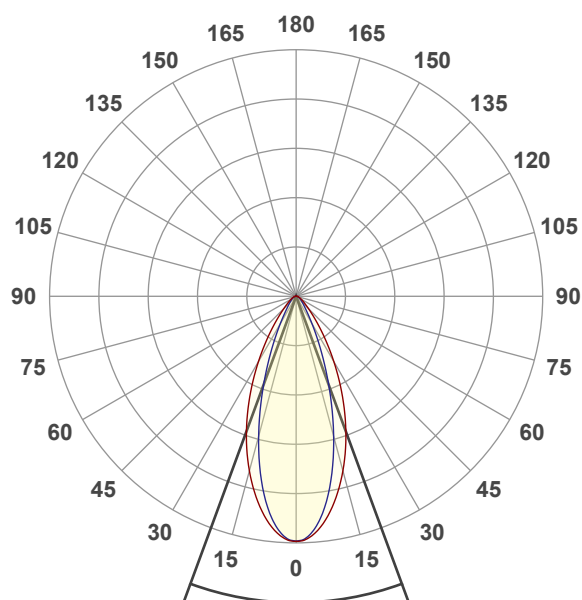
6500K

Operator:

Salvatore Giglio

Date and time:

20/02/2024 12:00:33

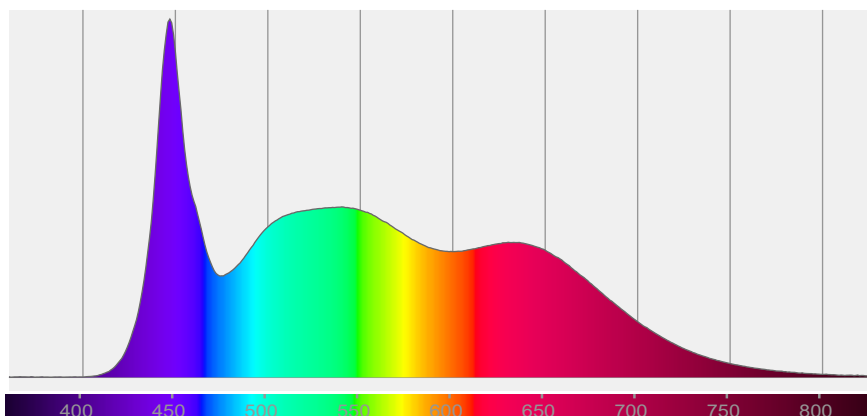


Beam angle 50%: 40,4°

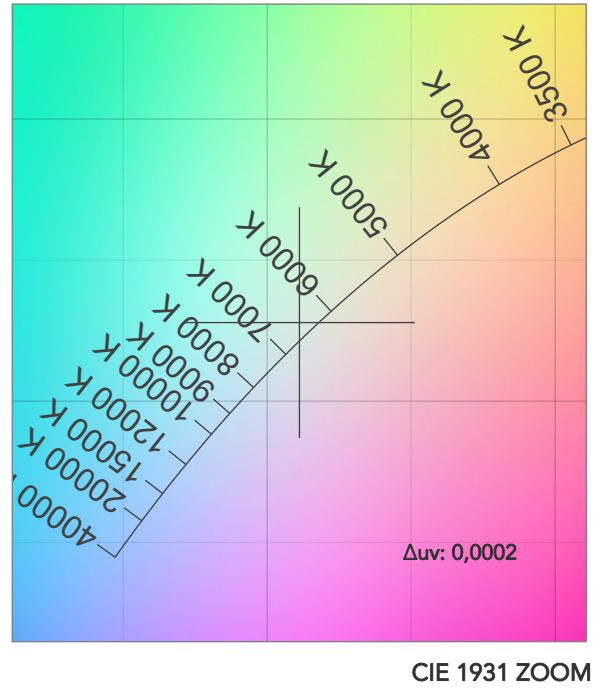
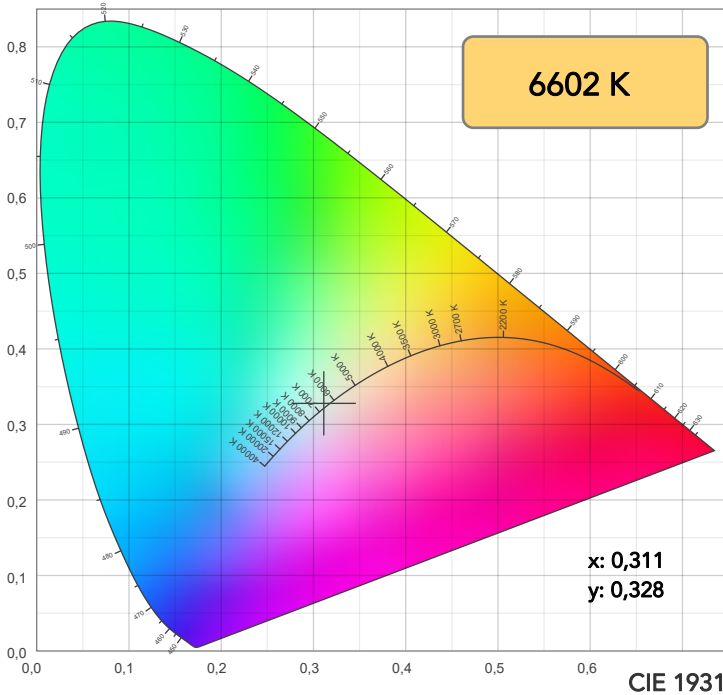
Field angle 10%: 73,9°

Cut off angle 2.5%: 111,6°

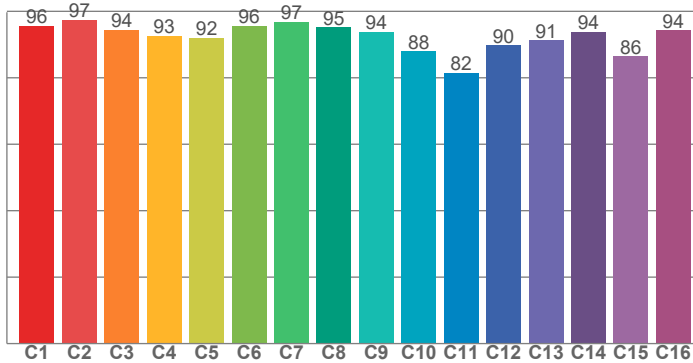
Spectra



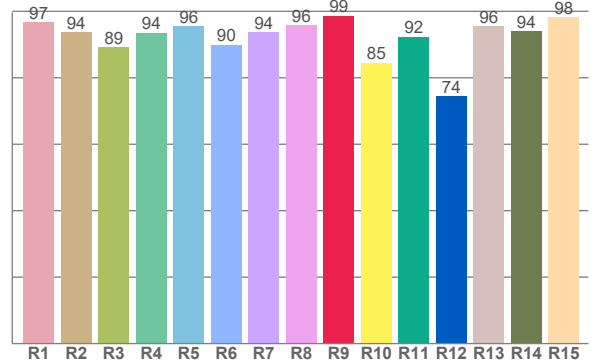
COLOR DETAILS



TM30: 92,3



CRI: 93,5 (R1-R8)



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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96,6 | 93,8 | 89,3 | 93,5 | 95,6 | 89,9 | 93,8 | 95,7 | 98,7 | 84,5 | 92,3 | 74,5 | 95,6 | 94,1 | 98,2 |

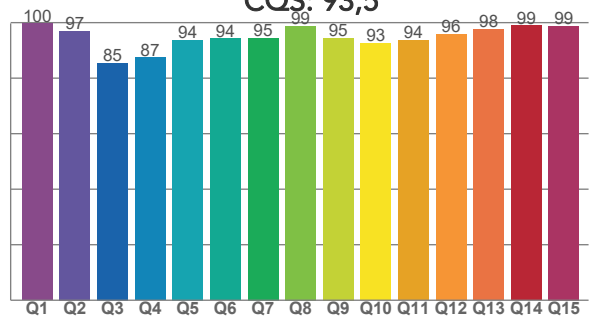
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95,7 | 97,4 | 94,5 | 92,7 | 92,0 | 95,6 | 96,9 | 95,2 | 93,8 | 88,0 | 81,5 | 89,7 | 91,3 | 93,8 | 86,5 | 94,3 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 99,7 | 96,9 | 85,5 | 87,3 | 93,8 | 94,3 | 94,5 | 98,7 | 94,5 | 92,6 | 93,6 | 95,9 | 97,6 | 99,0 | 98,8 |

CQS: 93,5



COLOR PARAMETERS

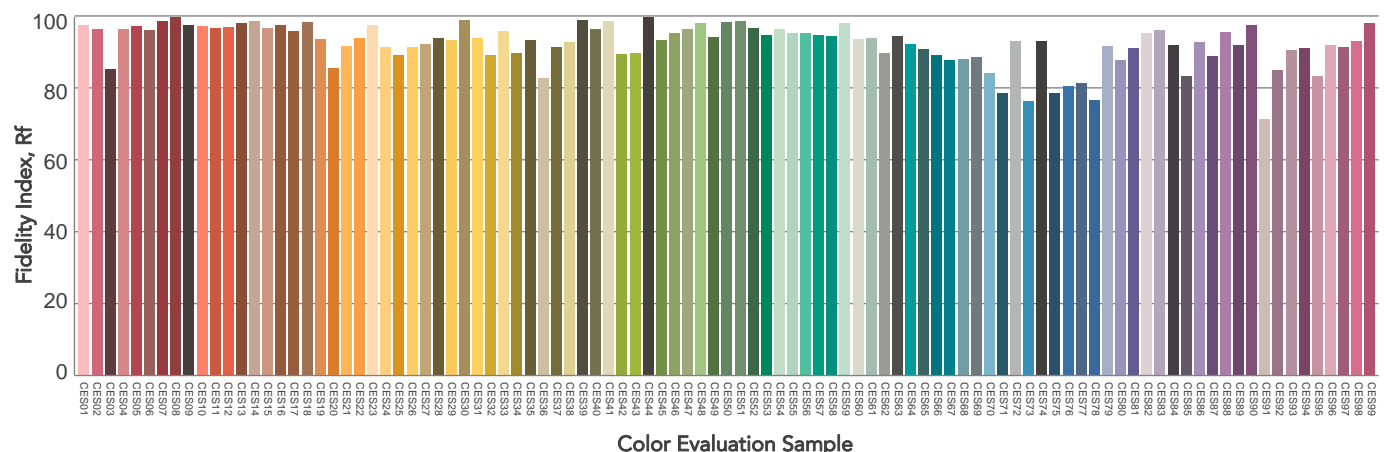
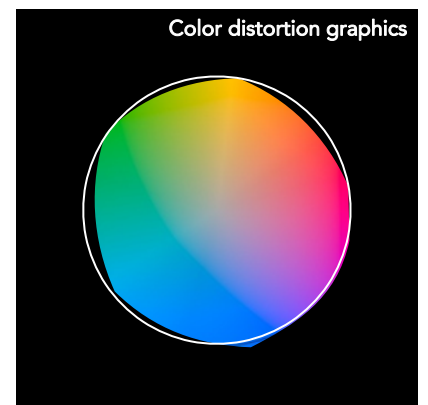
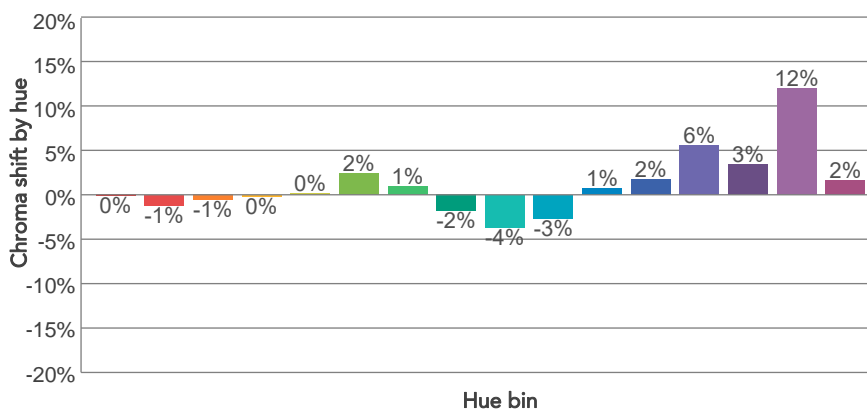
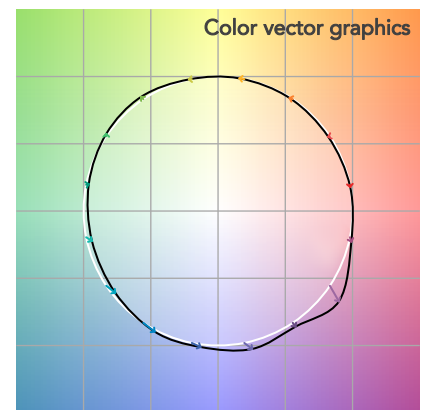
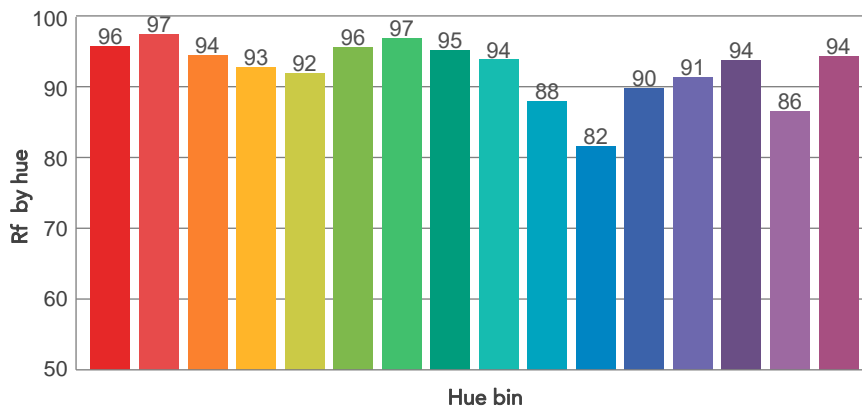
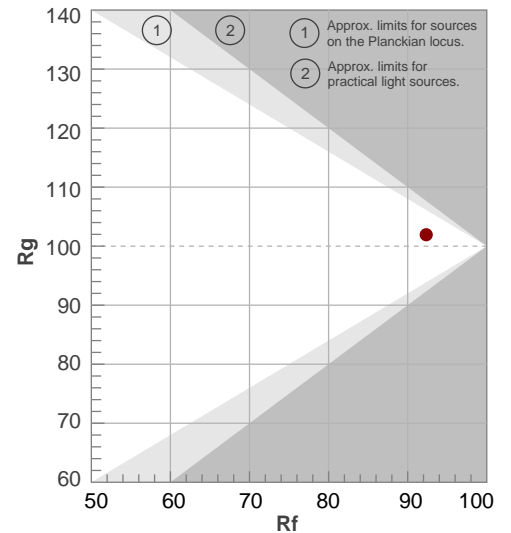
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Television lighting index | Color coordinate cie 1931 | Color coordinate cie 1931 | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|---------------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 6602 K | 93,5 | 98,7 | 92,3 | 101,9 | 93,5 | 98 | 0,311 | 0,328 | 0,0002 |

TM30 DETAILS

Rf 92,3
Fidelity index Rf

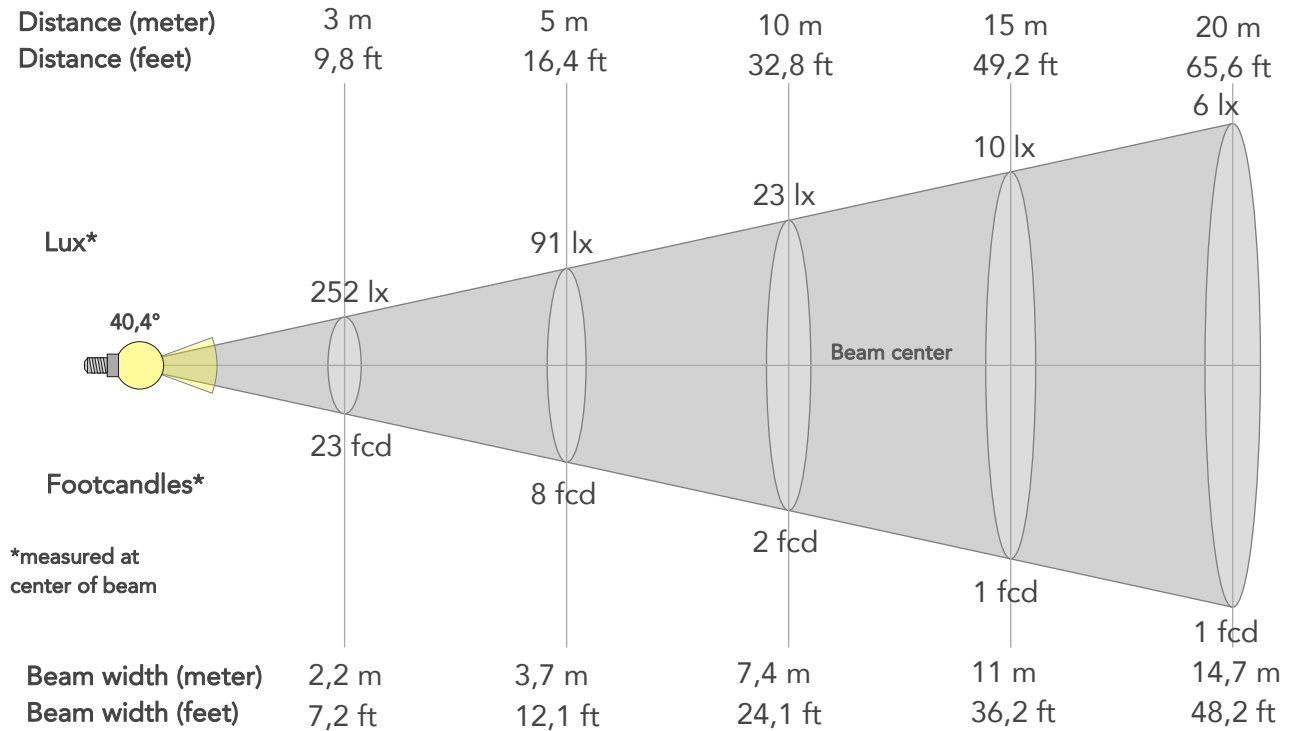
Rg 101,9
Gammut index

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 96 | 0% | -2% |
| 2 | 97 | -1% | 0% |
| 3 | 94 | -1% | 2% |
| 4 | 93 | 0% | 4% |
| 5 | 92 | 0% | 2% |
| 6 | 96 | 2% | 1% |
| 7 | 97 | 1% | -2% |
| 8 | 95 | -2% | -1% |
| 9 | 94 | -4% | 3% |
| 10 | 88 | -3% | 8% |
| 11 | 82 | 1% | 11% |
| 12 | 90 | 2% | 7% |
| 13 | 91 | 6% | 5% |
| 14 | 94 | 3% | 0% |
| 15 | 86 | 12% | -6% |
| 16 | 94 | 2% | -3% |



BEAM DETAILS

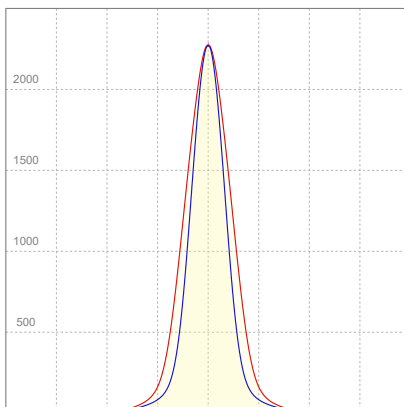
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|--------------------|------------------------------|-----------------------------|
| 40,4° | 73,9° | 111,6° | 95,7% | 88,6% |



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 | 2271lx | 568lx | 252lx | 142lx | 91lx | 40lx | 23lx | 10lx | 6lx | 4lx | 3lx | 1lx | 1lx |
| Footcand. | 211fcd | 53fcd | 23fcd | 13fcd | 8fcd | 4fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,7m | 1,5m | 2,2m | 2,9m | 3,7m | 5,5m | 7,4m | 11m | 14,7m | 18,4m | 22,1m | 29,4m | 36,8m |
| Beam wid. | 2,4ft | 4,9ft | 7,2ft | 9,6ft | 12,1ft | 18,1ft | 24,1ft | 36,2ft | 48,2ft | 60,3ft | 72,4ft | 96,5ft | 120,6ft |

LINEAR DISTRIBUTION DIAGRAM

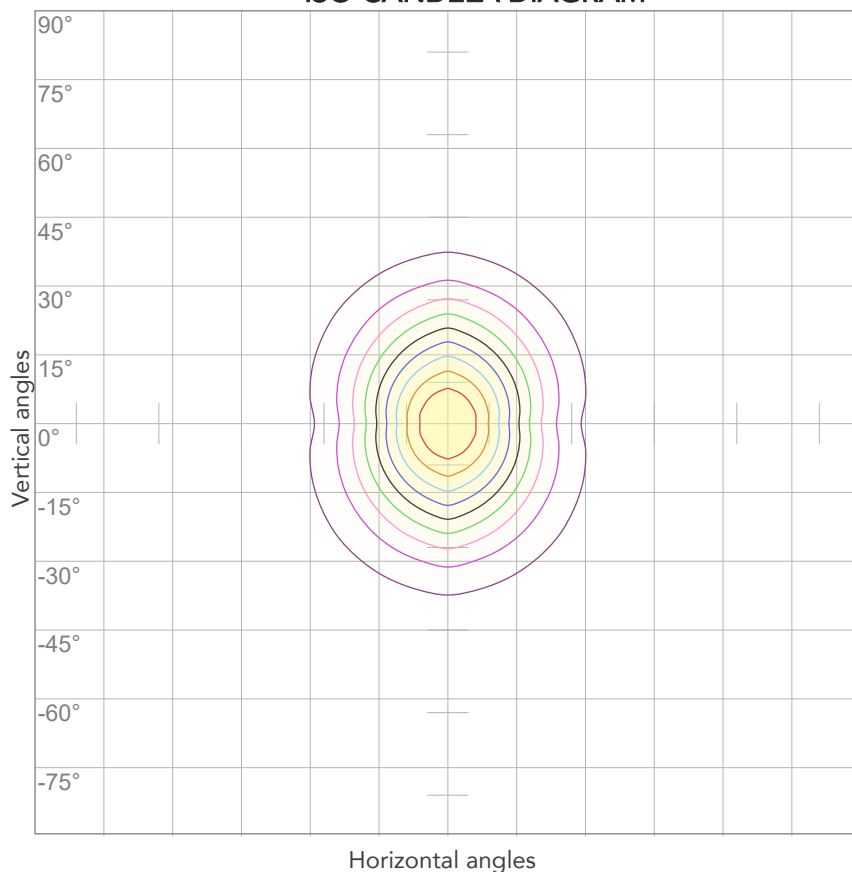


ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Power FC | Efficiency |
|---------------|---------------|-------------|----------|------------|
| 226V | 0,126A | 26,6W | 0,94 | 52lm/W |

ISO DIAGRAMS

ISO CANDELA DIAGRAM



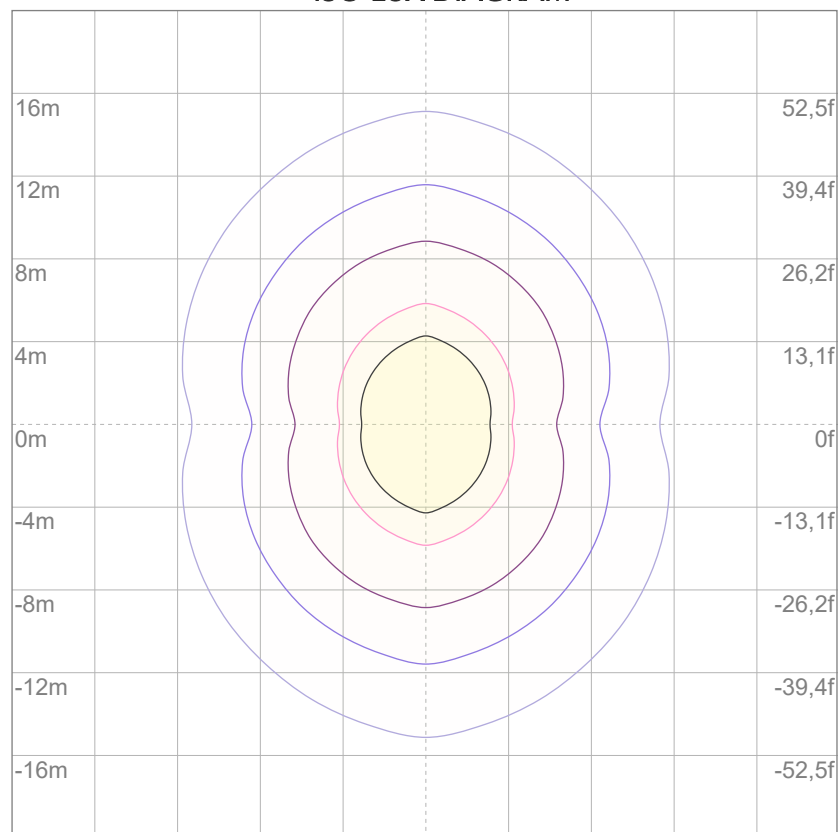
| | |
|-----|---------|
| 10% | 227 cd |
| 20% | 454 cd |
| 30% | 681 cd |
| 40% | 908 cd |
| 50% | 1136 cd |
| 60% | 1363 cd |
| 70% | 1590 cd |
| 80% | 1817 cd |

Conditions:

Number of c-planes: 4

Candela at center: 2271 cd

ISO LUX DIAGRAM



| | |
|-----|----------|
| 3% | 0,681 lx |
| 5% | 1,14 lx |
| 10% | 2,27 lx |
| 30% | 6,81 lx |
| 50% | 11,4 lx |

Conditions:

Number of c-planes: 4

Lux at center: 22,7 lx

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