# Photometric Test Report

# ECLCTPLUS PRL50

High quality six colours full spectrum ellipsoidal LED

# CONTENTS

# 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:

5773 lm

Peak candela output:

11881 cd

## PRODUCT NAME:

ECLCTPLUS

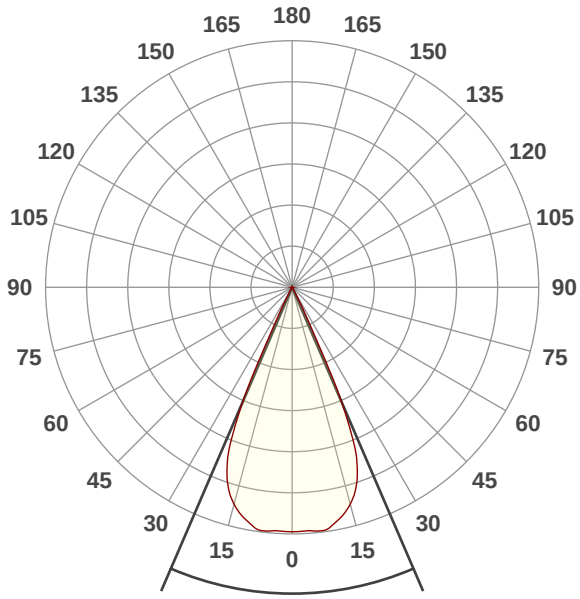
## MEASURAMENT CONDITIONS:

Beam angle:
PRL50

Target:
Full On HQ

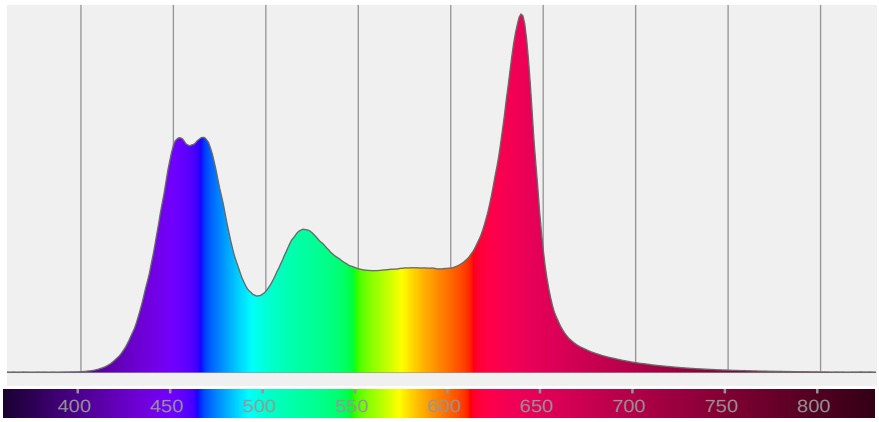
Operator:
Paolo Carvone

Date and time:
14/07/2020 14:55:17



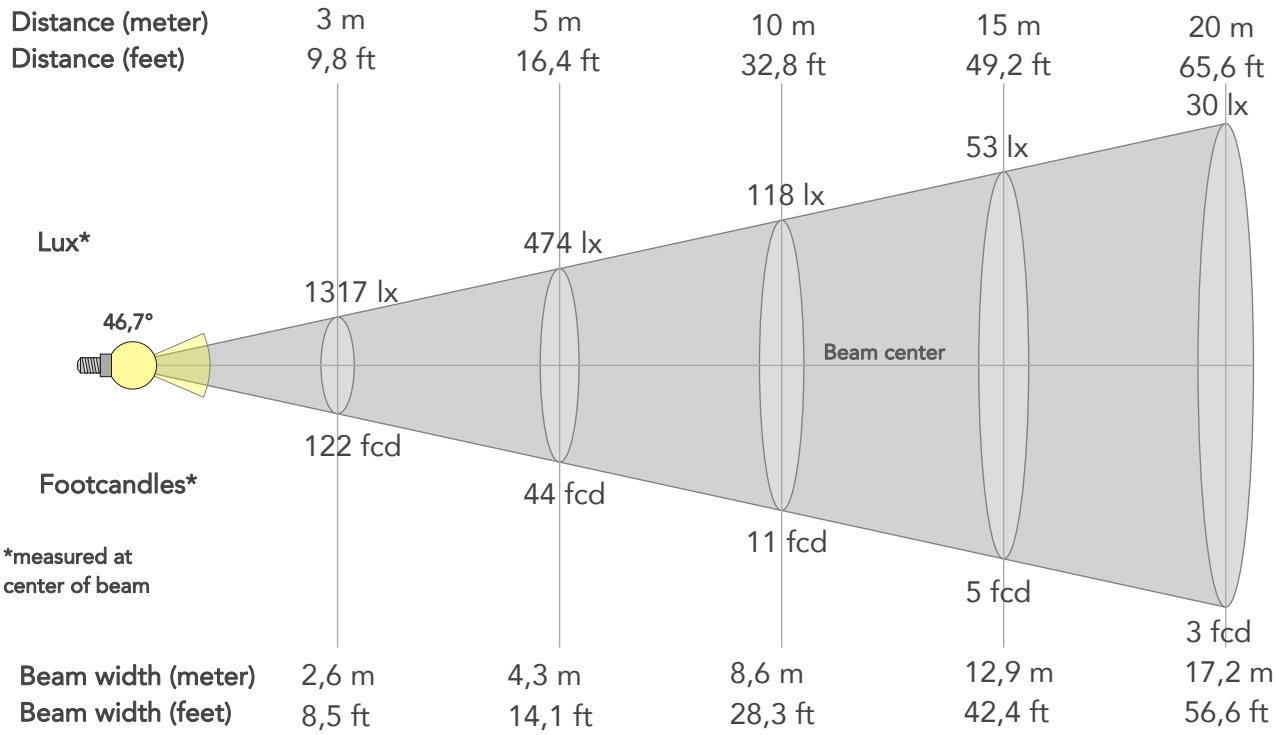

Beam angle 50%: 46,7°
Field angle 10%: 53,2°
Cut off angle 2.5%: 56,3°

Spectra



# BEAM DETAILS

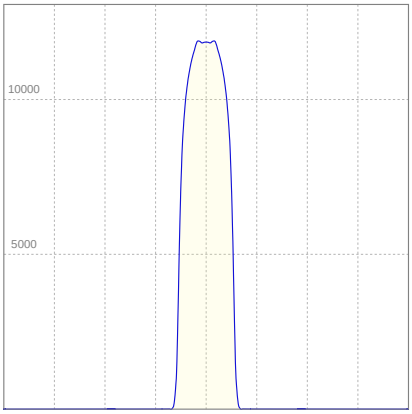
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|---|---|---|---|---|
| 46,7° | 53,2° | 56,3° | 99,7% | 99,7% |




## BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 11849lx | 2962lx | 1317lx | 741lx | 474lx | 211lx | 118lx | 53lx | 30lx | 19lx | 13lx | 7lx | 5lx |
| Footcand. | 1101fcd | 275fcd | 122fcd | 69fcd | 44fcd | 20fcd | 11fcd | 5fcd | 3fcd | 2fcd | 1fcd | 1fcd | 0fcd |
| Beam wid. | 0,9m | 1,7m | 2,6m | 3,4m | 4,3m | 6,5m | 8,6m | 12,9m | 17,2m | 21,6m | 25,9m | 34,5m | 43,1m |
| Beam wid. | 2,8ft | 5,7ft | 8,5ft | 11,3ft | 14,1ft | 21,2ft | 28,3ft | 42,4ft | 56,6ft | 70,7ft | 84,9ft | 113,1ft | 141,4ft |

## LINEAR DISTRIBUTION DIAGRAM




## ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---|---|---|---|
| 226V | 1,22A | 264,4W | 22lm/W |

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



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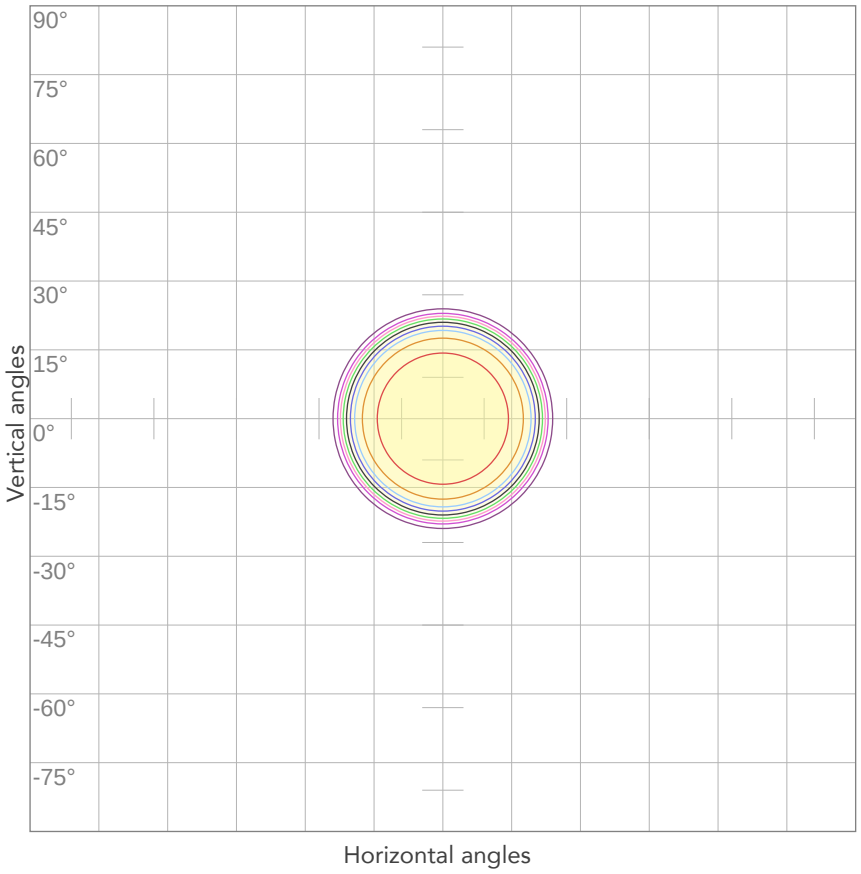
# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



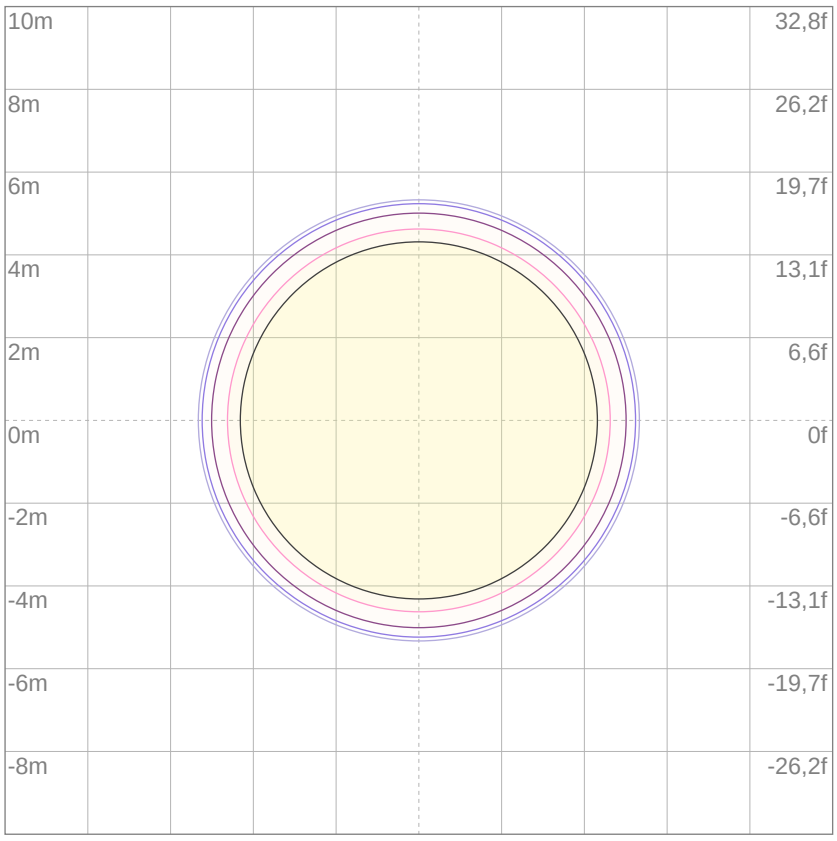

| | |
|---|---|
| 10% | 1185 cd |
| 20% | 2370 cd |
| 30% | 3555 cd |
| 40% | 4740 cd |
| 50% | 5924 cd |
| 60% | 7109 cd |
| 70% | 8294 cd |
| 80% | 9479 cd |

Conditions:

Number of c-planes: 2

Candela at center: 11849 cd

## ISO LUX DIAGRAM




Mounting height: 10 meters (33 feet)

| | |
|---|---|
| 3% | 3,55 lx |
| 5% | 5,92 lx |
| 10% | 11,8 lx |
| 30% | 35,5 lx |
| 50% | 59,2 lx |

Conditions:

Number of c-planes: 2

Lux at center: 118 lx

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

Total lumen output:

891 lm

Peak candela output:

1801 cd

## PRODUCT NAME:

ECLCTPLUS

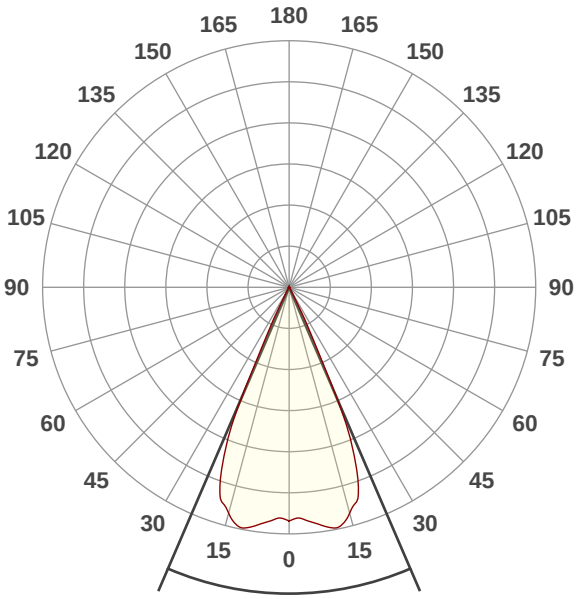
## MEASURAMENT CONDITIONS:

Beam angle:
PRL50

Target:
Red HQ

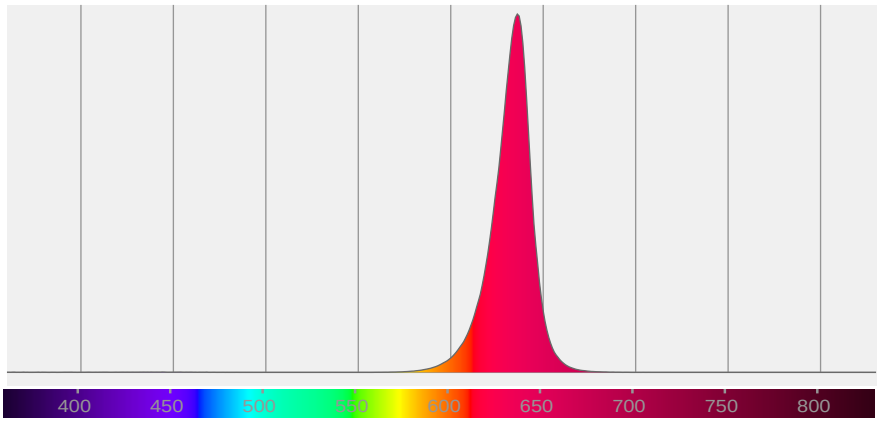
Operator:
Paolo Carvone

Date and time:
14/07/2020 14:57:22




Beam angle 50%: 46,6°
Field angle 10%: 53,3°
Cut off angle 2.5%: 57,1°

Spectra



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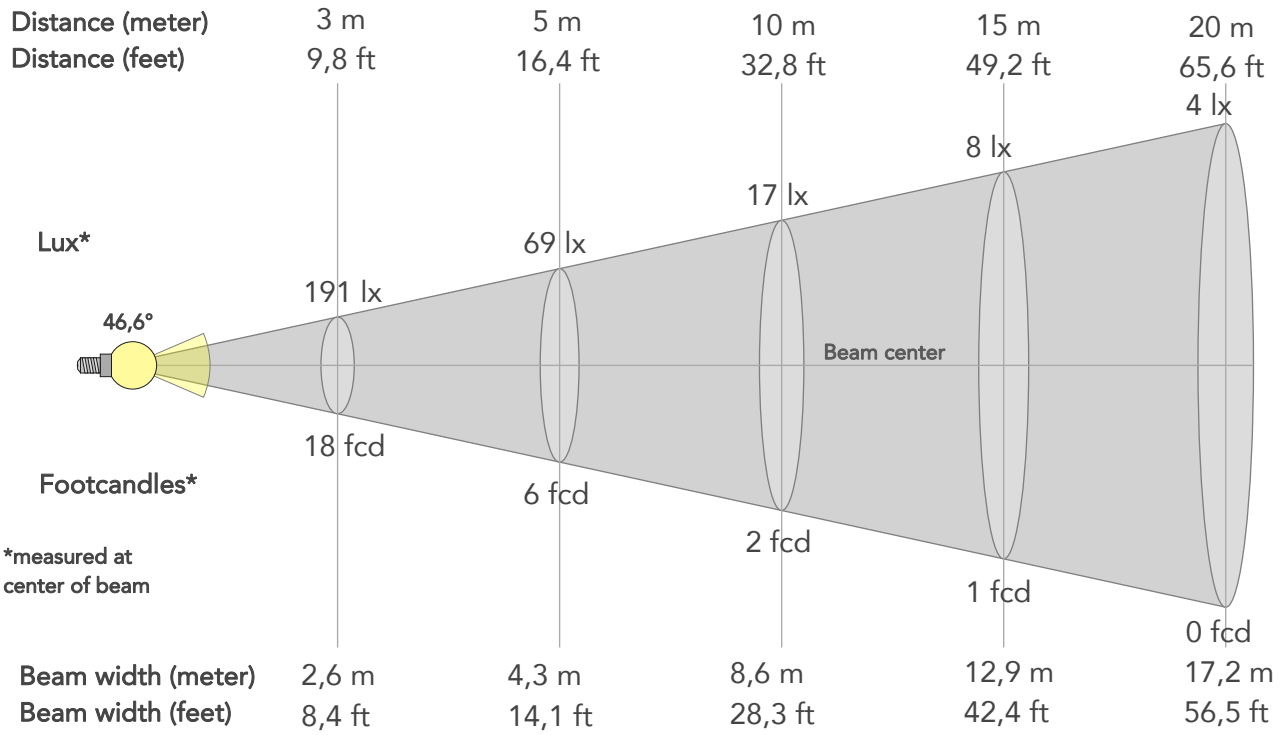
# BEAM DETAILS

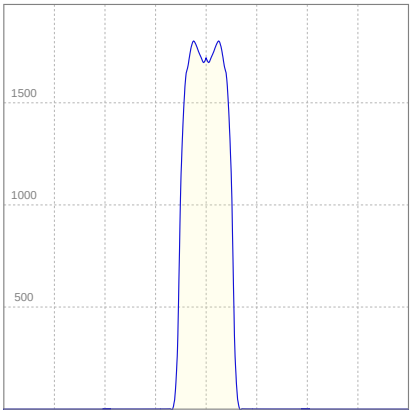
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|---|---|---|---|---|
| 46,6° | 53,3° | 57,1° | 99,8% | 99,7% |




## BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 1717lx | 429lx | 191lx | 107lx | 69lx | 31lx | 17lx | 8lx | 4lx | 3lx | 2lx | 1lx | 1lx |
| Footcand. | 160fcd | 40fcd | 18fcd | 10fcd | 6fcd | 3fcd | 2fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,9m | 1,7m | 2,6m | 3,4m | 4,3m | 6,5m | 8,6m | 12,9m | 17,2m | 21,5m | 25,8m | 34,5m | 43,1m |
| Beam wid. | 2,8ft | 5,7ft | 8,4ft | 11,3ft | 14,1ft | 21,2ft | 28,3ft | 42,4ft | 56,5ft | 70,6ft | 84,8ft | 113ft | 141,3ft |

## LINEAR DISTRIBUTION DIAGRAM




## ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---|---|---|---|
| 227V | 0,319A | 52,2W | 17lm/W |



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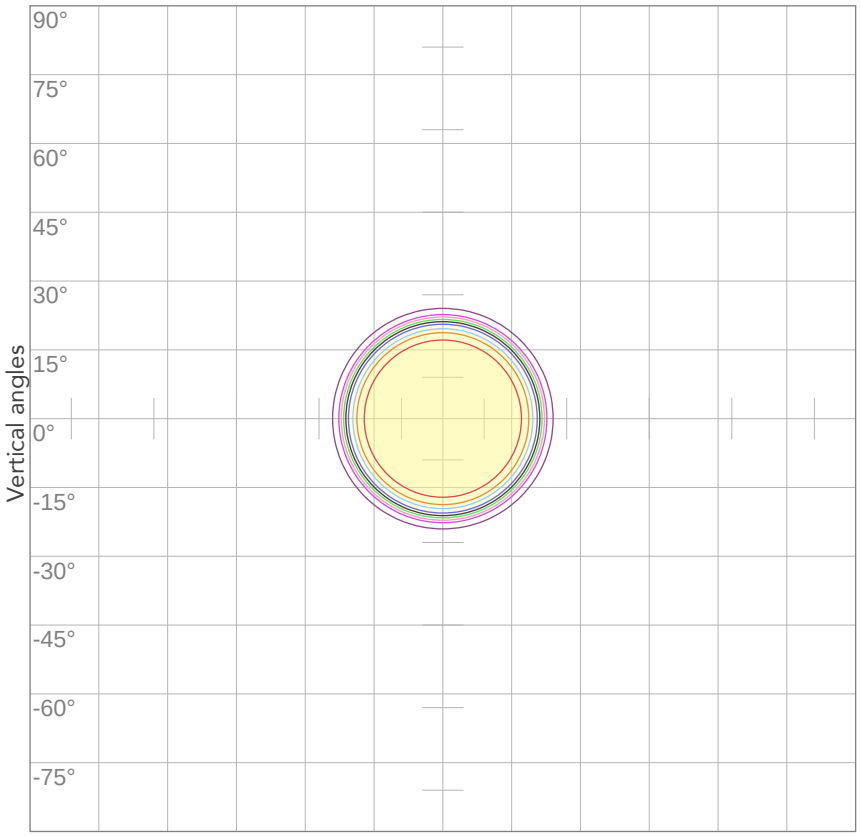
# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



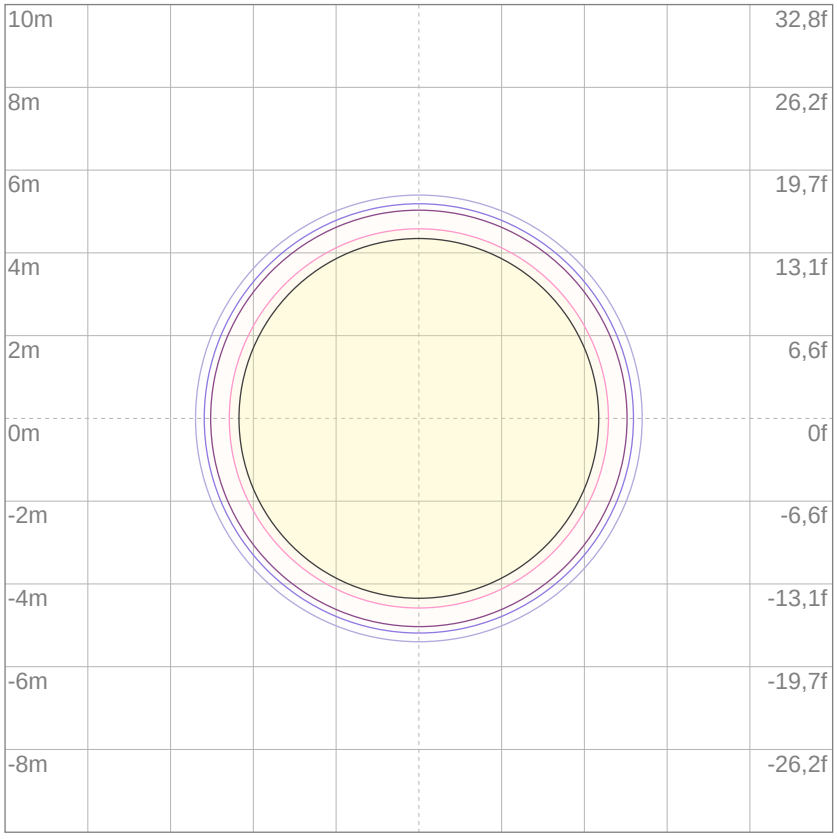

| | | |
|---|---|---|
| 10% | 172 cd |
| 20% | 343 cd |
| 30% | 515 cd |
| 40% | 687 cd |
| 50% | 858 cd |
| 60% | 1030 cd |
| 70% | 1202 cd |
| 80% | 1374 cd |

Conditions:

Number of c-planes: 2

Candela at center: 1717 cd

## ISO LUX DIAGRAM




Mounting height: 10 meters (33 feet)

| | |
|---|---|
| 3% | 0,515 lx |
| 5% | 0,858 lx |
| 10% | 1,72 lx |
| 30% | 5,15 lx |
| 50% | 8,58 lx |

Conditions:

Number of c-planes: 2

Lux at center: 17,2 lx

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

Total lumen output:

973 lm

Peak candela output:

2176 cd

## PRODUCT NAME:

ECLCTPLUS

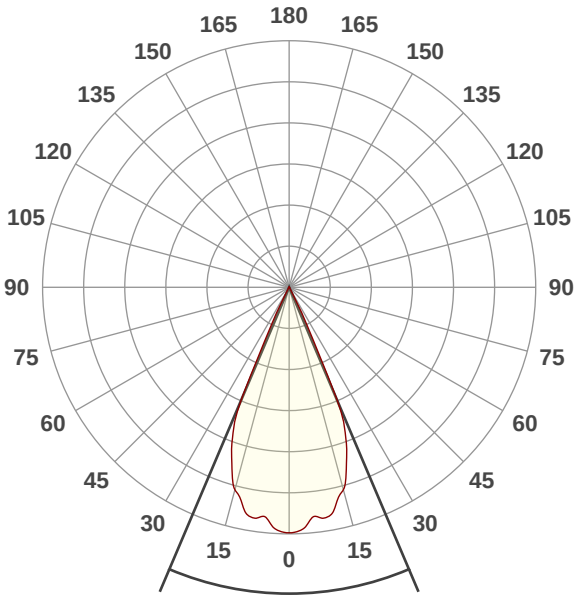
## MEASURAMENT CONDITIONS:

Beam angle:
PRL50

Target:
Green HQ

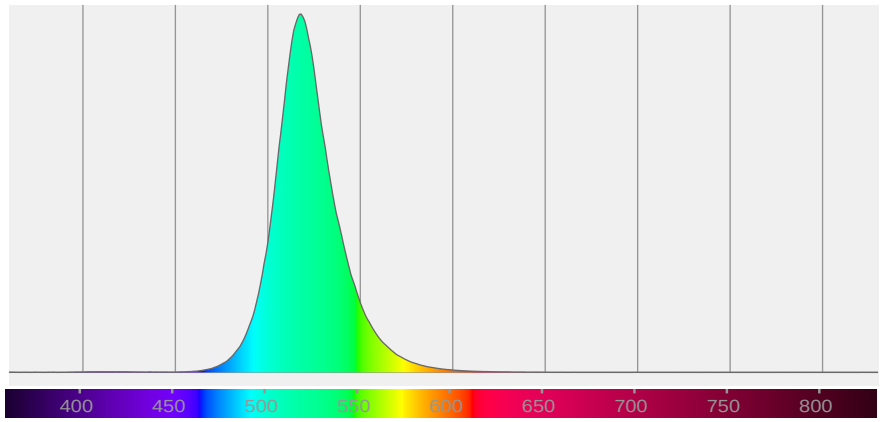
Operator:
Paolo Carvone

Date and time:
15/07/2020 16:17:55



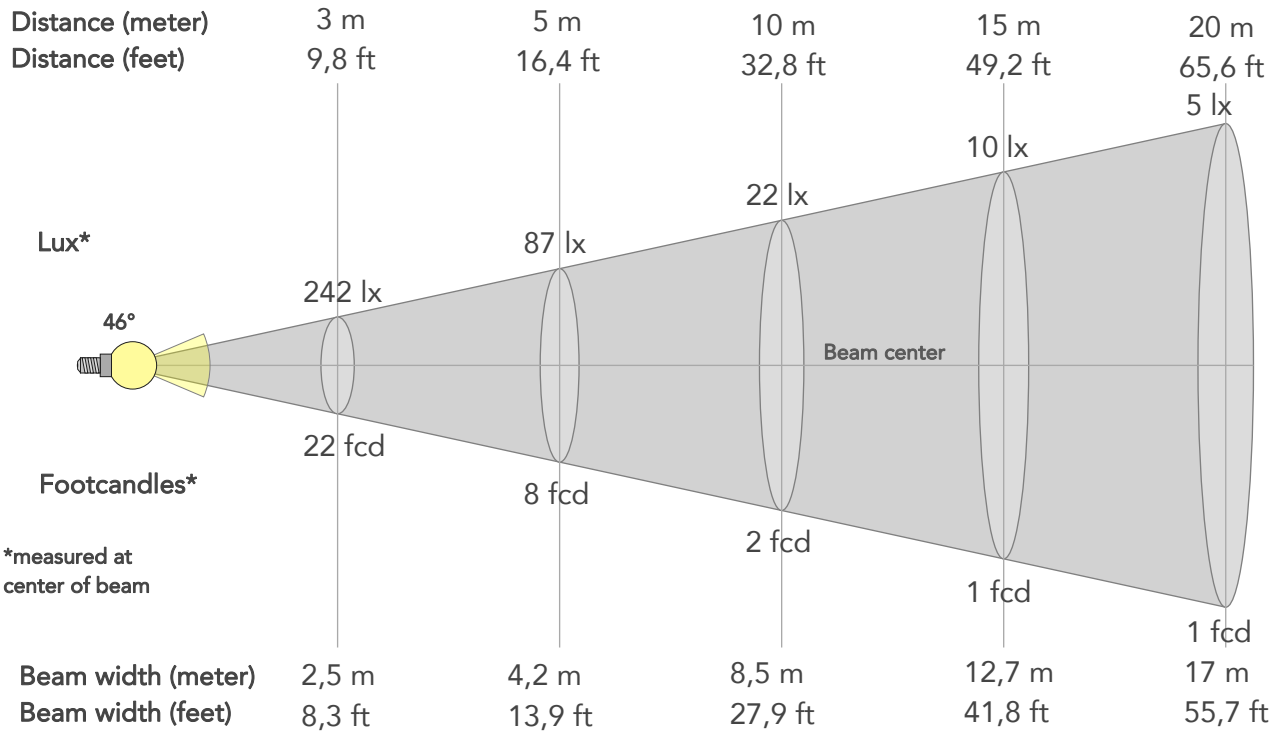

Beam angle 50%: 46°
Field angle 10%: 53°
Cut off angle 2.5%: 56,4°

Spectra



# BEAM DETAILS

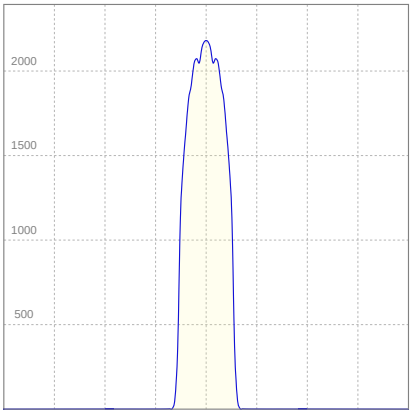
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|---|---|---|---|---|
| 46° | 53° | 56,4° | 99,5% | 99,4% |




## BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 2176lx | 544lx | 242lx | 136lx | 87lx | 39lx | 22lx | 10lx | 5lx | 3lx | 2lx | 1lx | 1lx |
| Footcand. | 202fcd | 51fcd | 22fcd | 13fcd | 8fcd | 4fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,8m | 1,7m | 2,5m | 3,4m | 4,2m | 6,4m | 8,5m | 12,7m | 17m | 21,2m | 25,5m | 34m | 42,5m |
| Beam wid. | 2,8ft | 5,6ft | 8,3ft | 11,1ft | 13,9ft | 20,9ft | 27,9ft | 41,8ft | 55,7ft | 69,7ft | 83,6ft | 111,5ft | 139,4ft |

## LINEAR DISTRIBUTION DIAGRAM




## ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---|---|---|---|
| 225V | 0,300A | 47,6W | 20lm/W |



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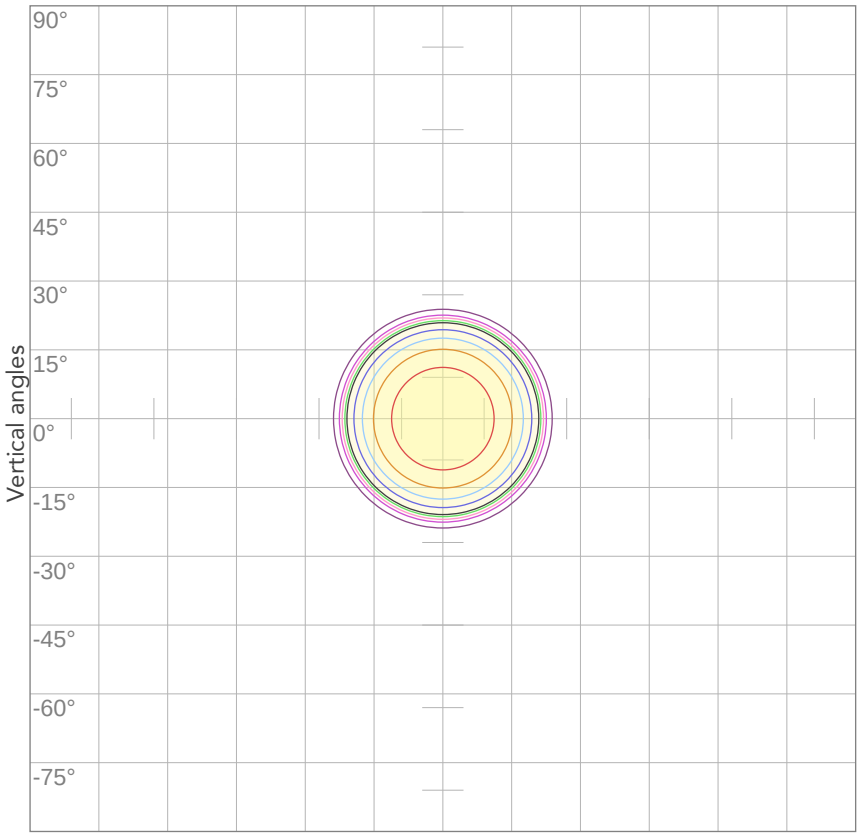
# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



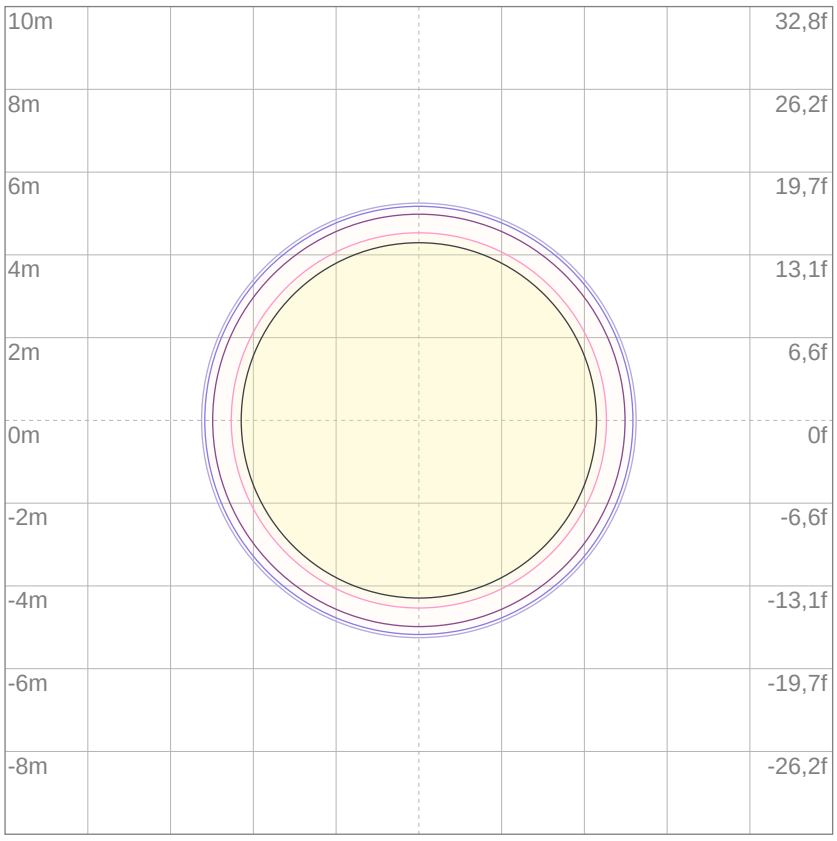

| | | |
|---|---|---|
| 10% | 218 cd |
| 20% | 435 cd |
| 30% | 653 cd |
| 40% | 870 cd |
| 50% | 1088 cd |
| 60% | 1306 cd |
| 70% | 1523 cd |
| 80% | 1741 cd |

Conditions:

Number of c-planes: 2

Candela at center: 2176 cd

## ISO LUX DIAGRAM




Mounting height: 10 meters (33 feet)

| | |
|---|---|
| 3% | 0,653 lx |
| 5% | 1,09 lx |
| 10% | 2,18 lx |
| 30% | 6,53 lx |
| 50% | 10,9 lx |

Conditions:

Number of c-planes: 2

Lux at center: 21,8 lx

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



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Total lumen output:

109 lm

Peak candela output:

242 cd

## PRODUCT NAME:

ECLCTPLUS

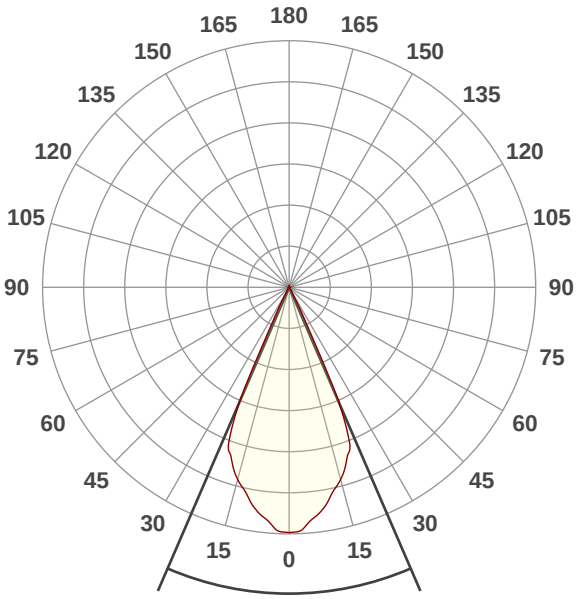
## MEASURAMENT CONDITIONS:

Beam angle:
PRL50

Target:
Blue HQ

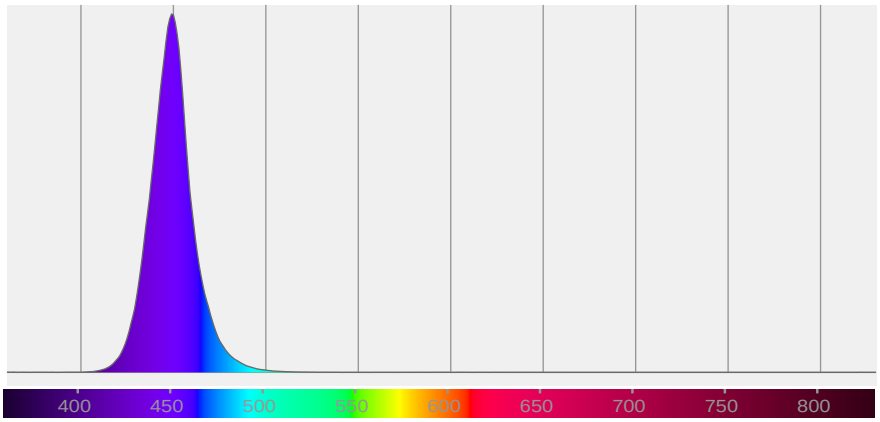
Operator:
Paolo Carvone

Date and time:
14/07/2020 15:00:48



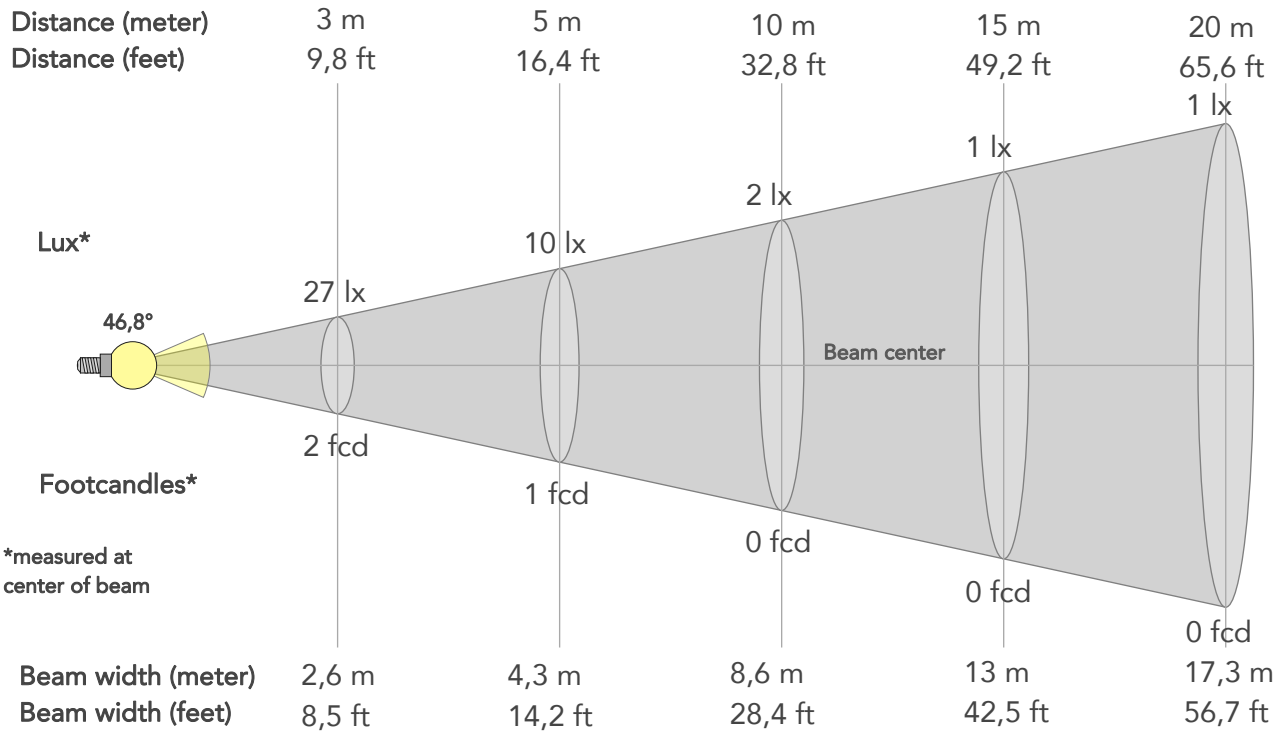

Beam angle 50%: 46,8°
Field angle 10%: 53,4°
Cut off angle 2.5%: 57,6°

Spectra



# BEAM DETAILS

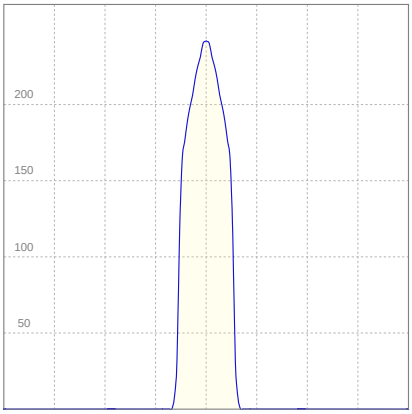
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|---|---|---|---|---|
| 46,8° | 53,4° | 57,6° | 99,6% | 99,6% |




## BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 242lx | 60lx | 27lx | 15lx | 10lx | 4lx | 2lx | 1lx | 1lx | 0lx | 0lx | 0lx | 0lx |
| Footcand. | 22fcd | 6fcd | 2fcd | 1fcd | 1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |
| Beam wid. | 0,9m | 1,7m | 2,6m | 3,5m | 4,3m | 6,5m | 8,6m | 13m | 17,3m | 21,6m | 25,9m | 34,6m | 43,2m |
| Beam wid. | 2,9ft | 5,7ft | 8,5ft | 11,3ft | 14,2ft | 21,3ft | 28,4ft | 42,5ft | 56,7ft | 70,9ft | 85,1ft | 113,4ft | 141,8ft |

## LINEAR DISTRIBUTION DIAGRAM




## ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---|---|---|---|
| 228V | 0,234A | 32,0W | 3lm/W |



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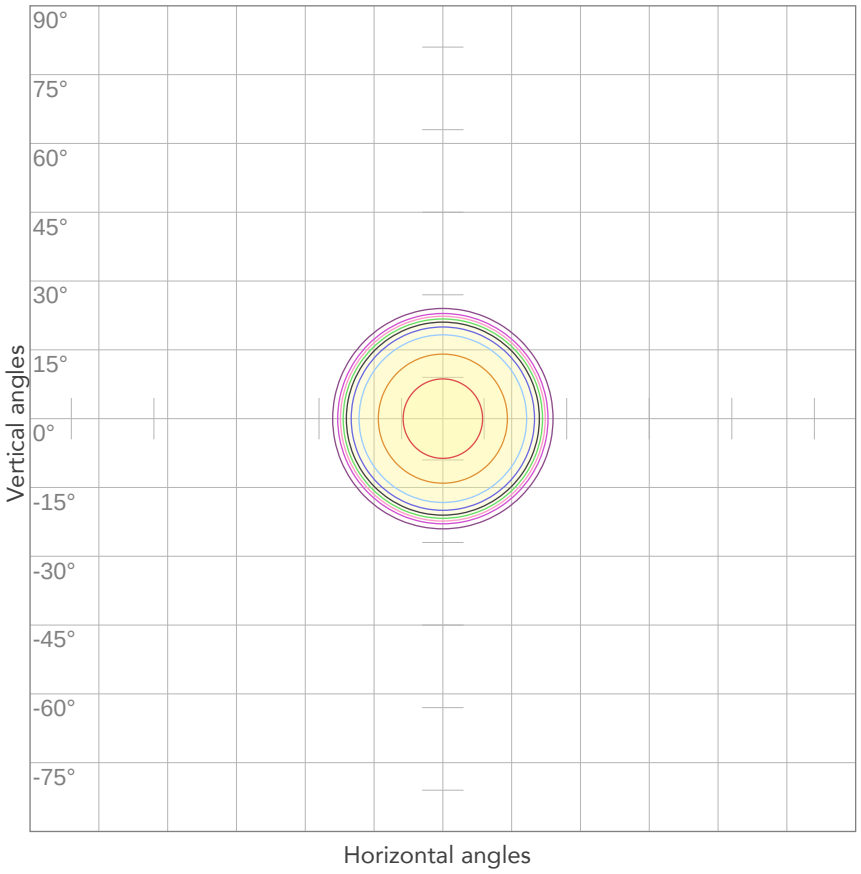
# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



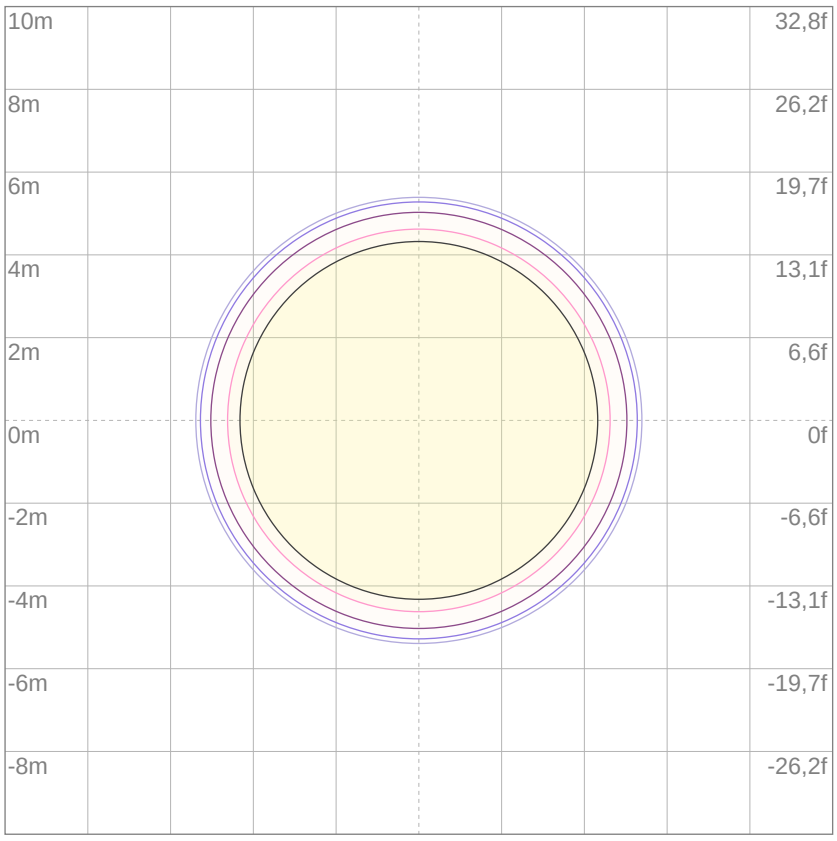

| | |
|---|---|
| 10% | 24 cd |
| 20% | 48 cd |
| 30% | 72 cd |
| 40% | 97 cd |
| 50% | 121 cd |
| 60% | 145 cd |
| 70% | 169 cd |
| 80% | 193 cd |

Conditions:

Number of c-planes: 2

Candela at center: 242 cd

## ISO LUX DIAGRAM




Mounting height: 10 meters (33 feet)

| | |
|---|---|
| 3% | 72,5m lx |
| 5% | 0,121 lx |
| 10% | 0,242 lx |
| 30% | 0,725 lx |
| 50% | 1,21 lx |

Conditions:

Number of c-planes: 2

Lux at center: 2,42 lx

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



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Total lumen output:

4658 lm

Peak candela output:

9592 cd

Light quality:

CRI: 92,3

Color temperature:

2821 K

## PRODUCT NAME:

ECLCTPLUS

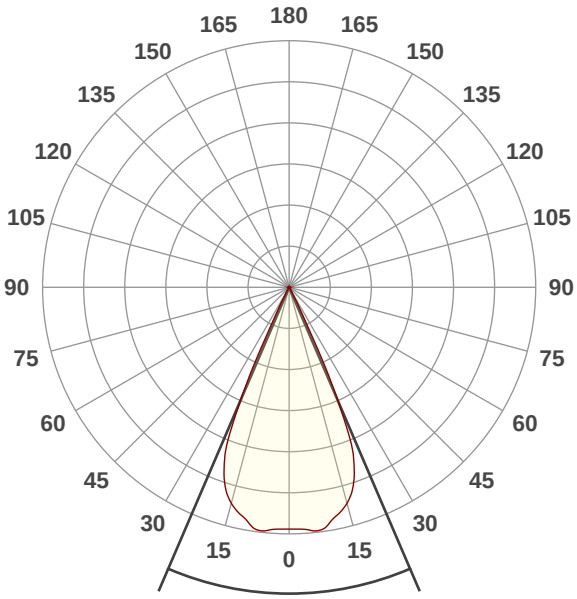
## MEASURAMENT CONDITIONS:

Beam angle:
PRL50

Target:
2800K HQ

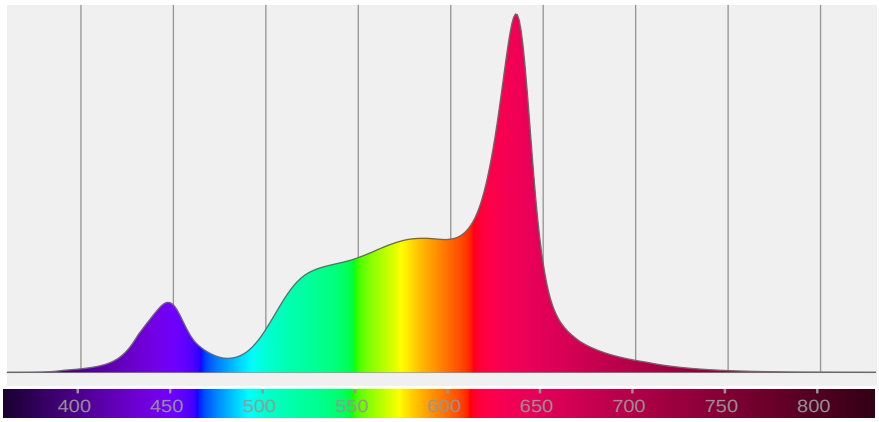
Operator:
Paolo Carvone

Date and time:
14/07/2020 15:21:40

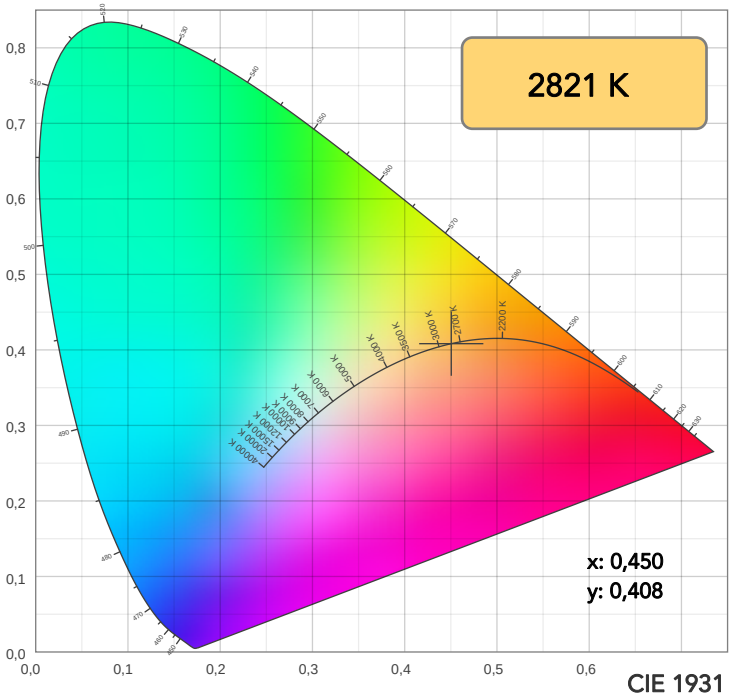



Beam angle 50%: 46,5°
Field angle 10%: 53°
Cut off angle 2.5%: 56,7°

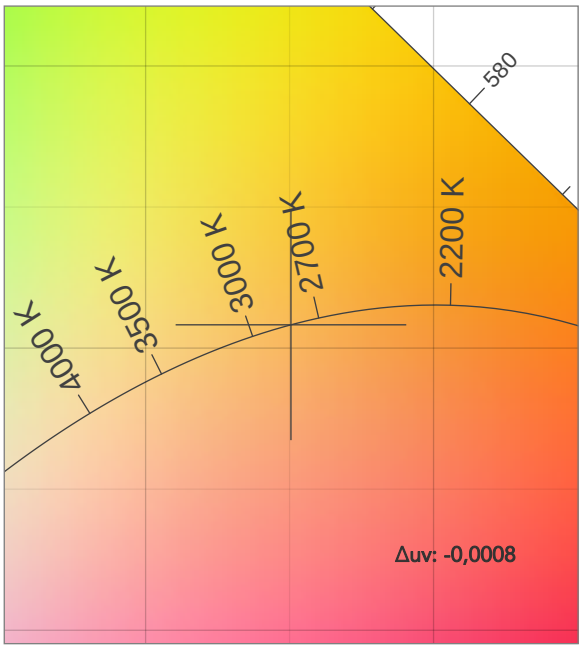
Spectra



# COLOR DETAILS

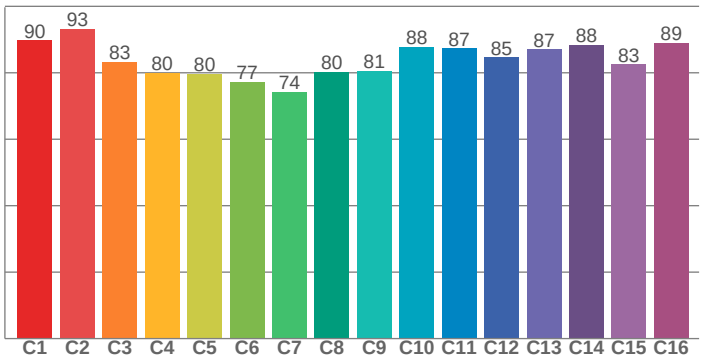



CIE 1931

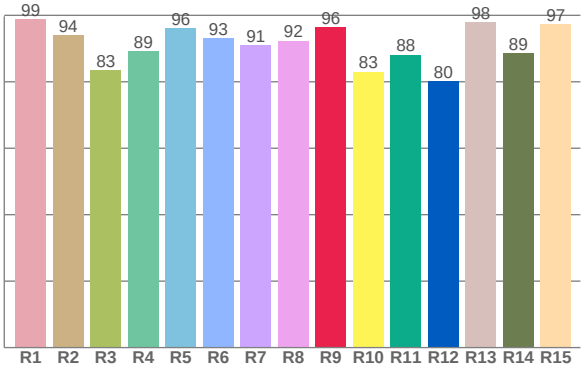



CIE 1931 ZOOM

## TM30: 84,6




## CRI: 92,3 (R1-R8)




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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 98,8 | 94,1 | 83,5 | 89,2 | 96,2 | 93,0 | 91,1 | 92,3 | 96,4 | 83,0 | 88,1 | 80,1 | 98,0 | 88,7 | 97,2 |

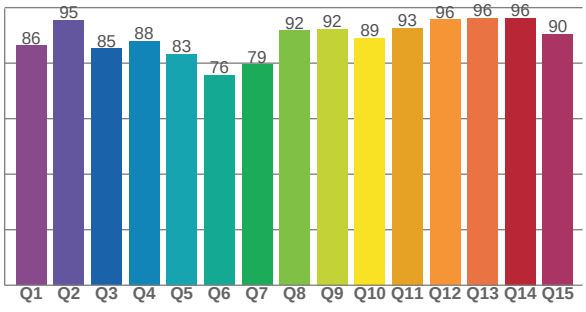
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 89,7 | 93,2 | 83,3 | 79,9 | 79,7 | 77,3 | 74,2 | 80,3 | 80,6 | 87,8 | 87,4 | 84,6 | 87,0 | 88,4 | 82,6 | 89,1 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 86,3 | 95,5 | 85,3 | 88,0 | 83,4 | 75,6 | 79,4 | 91,7 | 92,4 | 89,0 | 92,7 | 95,6 | 96,3 | 96,3 | 90,5 |

## CQS: 87,3




## 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 diviation from black body |
|---|---|---|---|---|---|---|---|---|---|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 2821 K | 92,3 | 96,4 | 84,6 | 108,4 | 87,3 | 72 | 0,450 | 0,408 | -0,0008 |



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# TM30 DETAILS

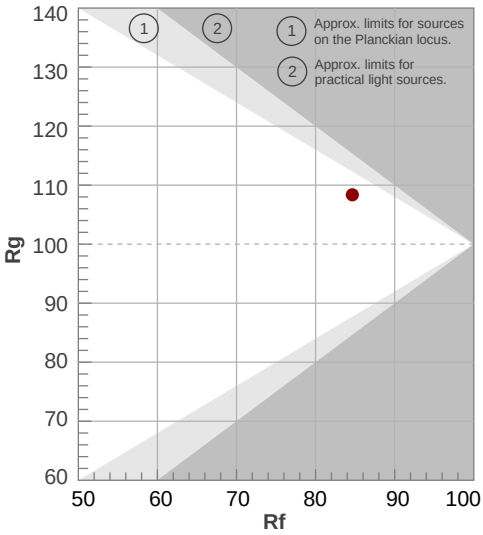
**Rf 84,6**

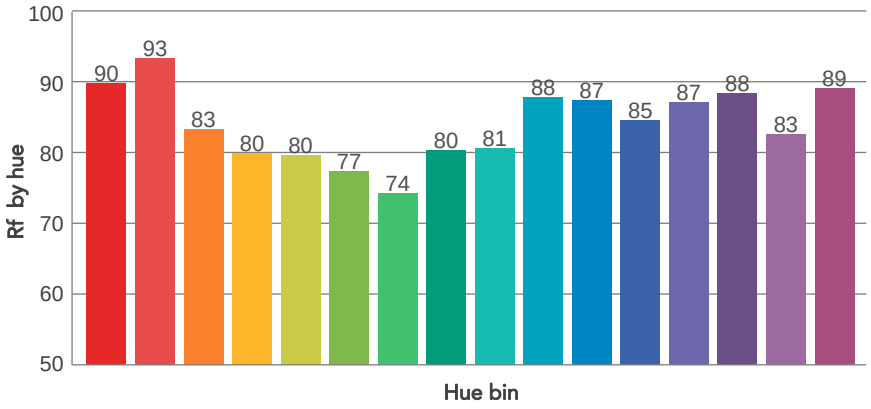
Fidelity index Rf

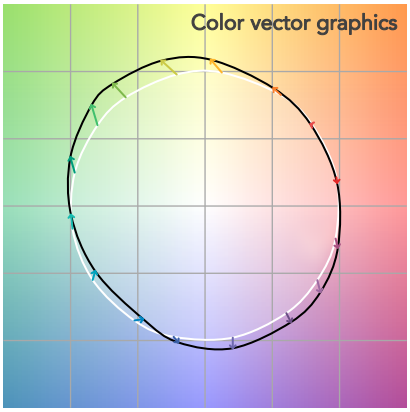
**Rg 108,4**

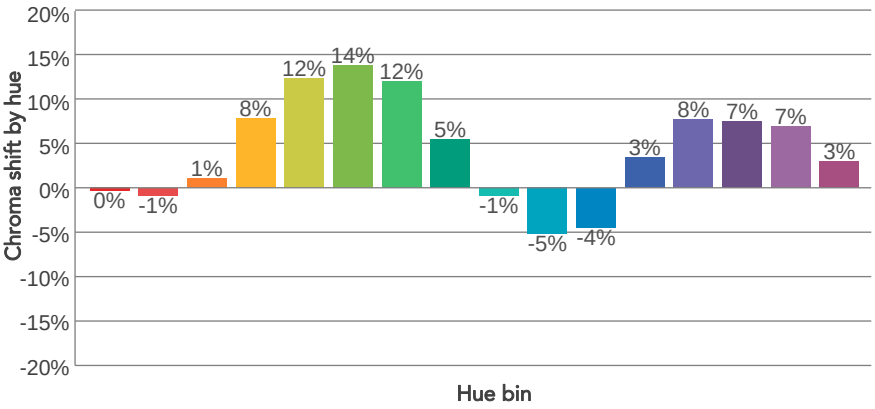
Gammut index

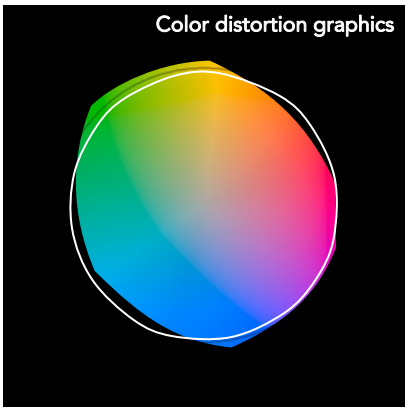
| | | Graphic shifts (%) | |
|---|---|---|---|
| Hue Bin | $R_f$ | Chroma | Hue |
| 1 | 90 | 0% | -4% |
| 2 | 93 | -1% | 1% |
| 3 | 83 | 1% | 7% |
| 4 | 80 | 8% | 10% |
| 5 | 80 | 12% | 9% |
| 6 | 77 | 14% | 2% |
| 7 | 74 | 12% | -10% |
| 8 | 80 | 5% | -11% |
| 9 | 81 | -1% | -10% |
| 10 | 88 | -5% | -4% |
| 11 | 87 | -4% | 5% |
| 12 | 85 | 3% | 4% |
| 13 | 87 | 8% | -2% |
| 14 | 88 | 7% | -1% |
| 15 | 83 | 7% | -6% |
| 16 | 89 | 3% | -6% |

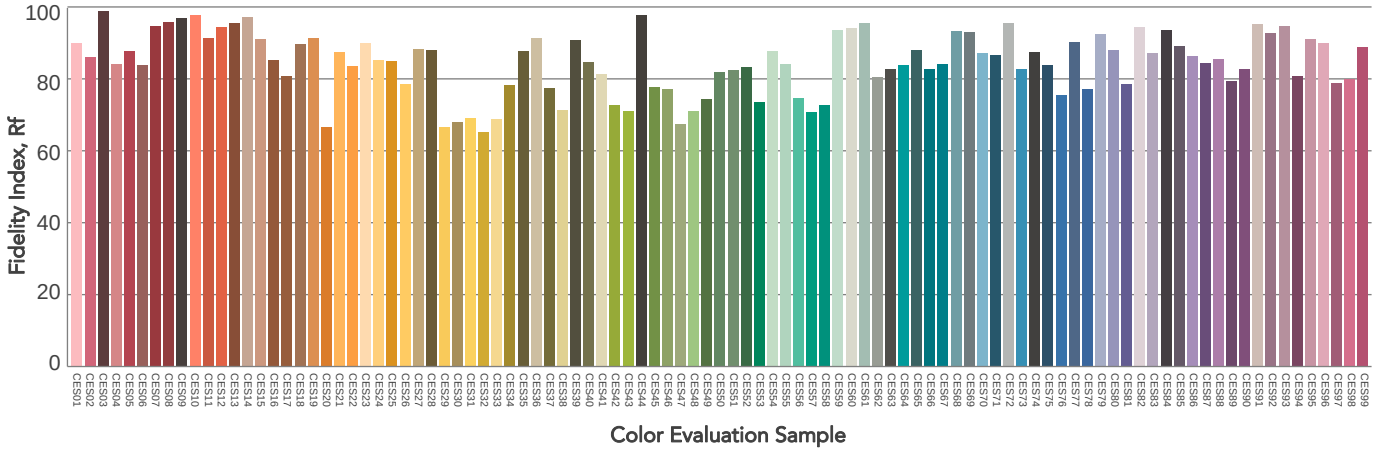




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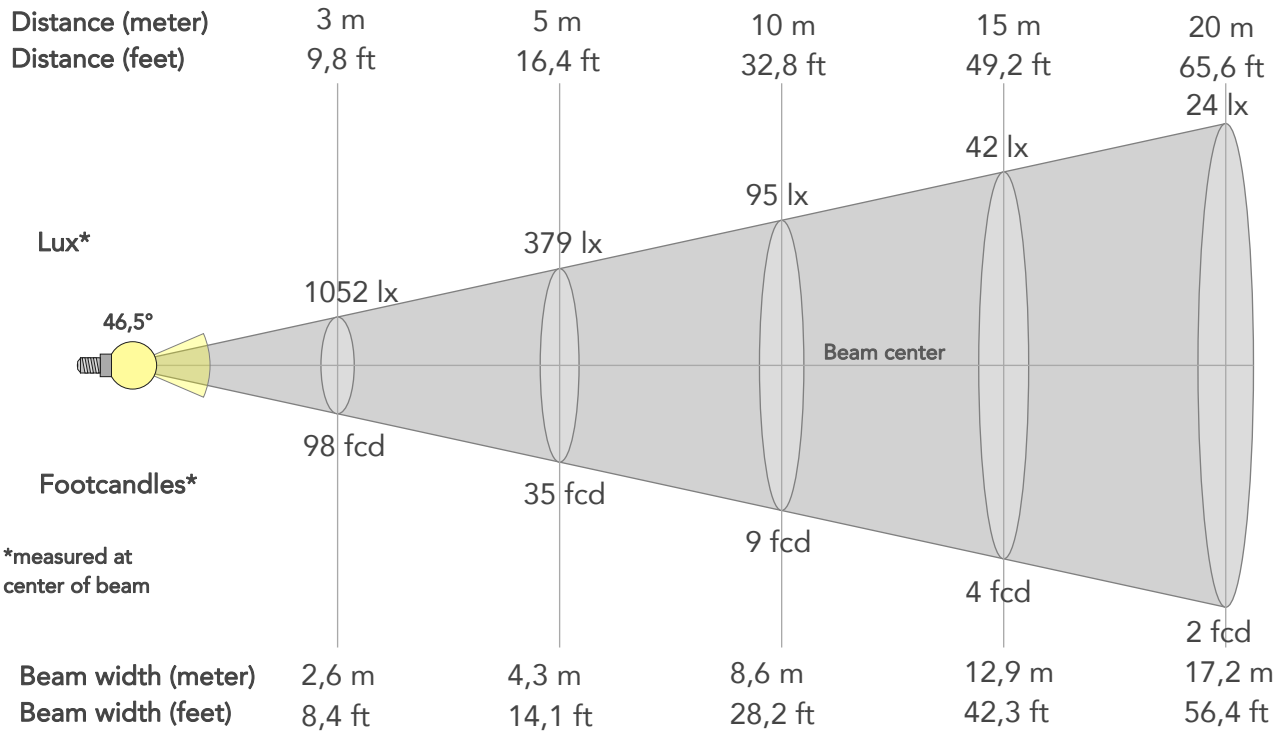
# BEAM DETAILS

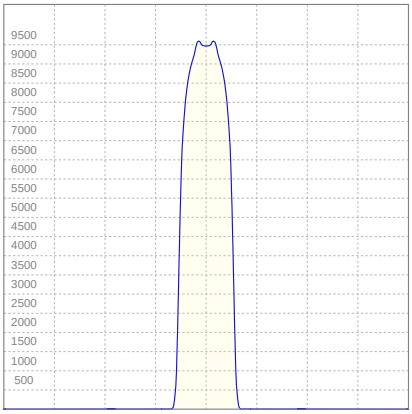
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|---|---|---|---|---|
| 46,5° | 53° | 56,7° | 99,6% | 99,6% |




## BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 9470lx | 2367lx | 1052lx | 592lx | 379lx | 168lx | 95lx | 42lx | 24lx | 15lx | 11lx | 6lx | 4lx |
| Footcand. | 880fcd | 220fcd | 98fcd | 55fcd | 35fcd | 16fcd | 9fcd | 4fcd | 2fcd | 1fcd | 1fcd | 1fcd | 0fcd |
| Beam wid. | 0,9m | 1,7m | 2,6m | 3,4m | 4,3m | 6,4m | 8,6m | 12,9m | 17,2m | 21,5m | 25,8m | 34,4m | 43m |
| Beam wid. | 2,8ft | 5,7ft | 8,4ft | 11,3ft | 14,1ft | 21,1ft | 28,2ft | 42,3ft | 56,4ft | 70,5ft | 84,6ft | 112,7ft | 140,9ft |

## LINEAR DISTRIBUTION DIAGRAM

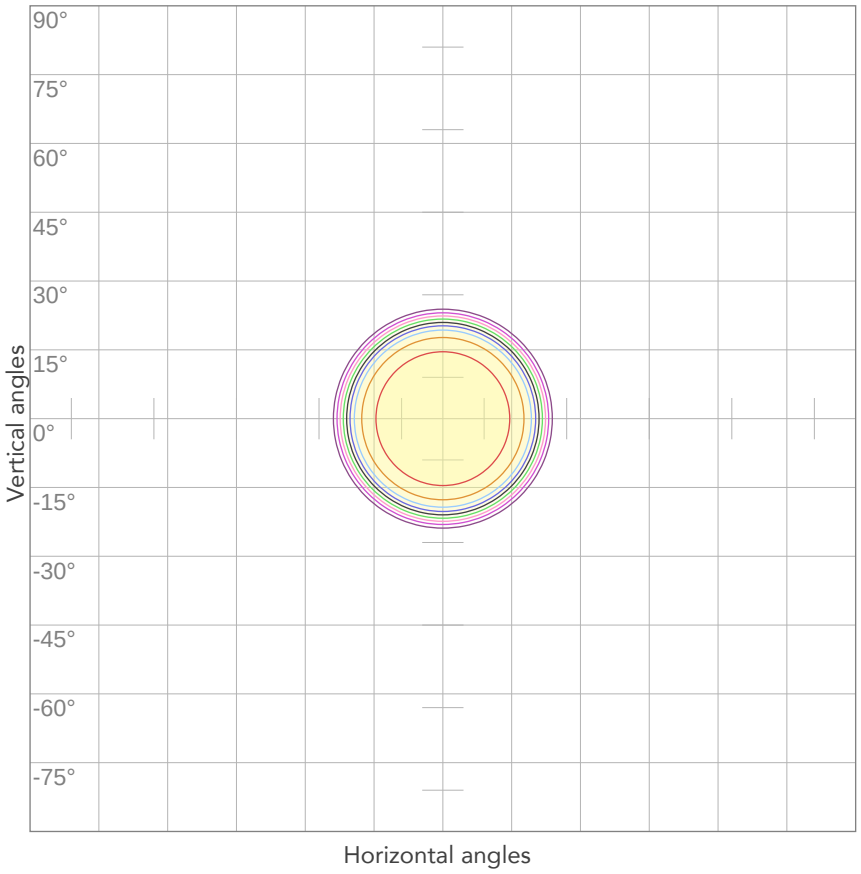



## ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---|---|---|---|
| 226V | 0,815A | 170,3W | 27lm/W |

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



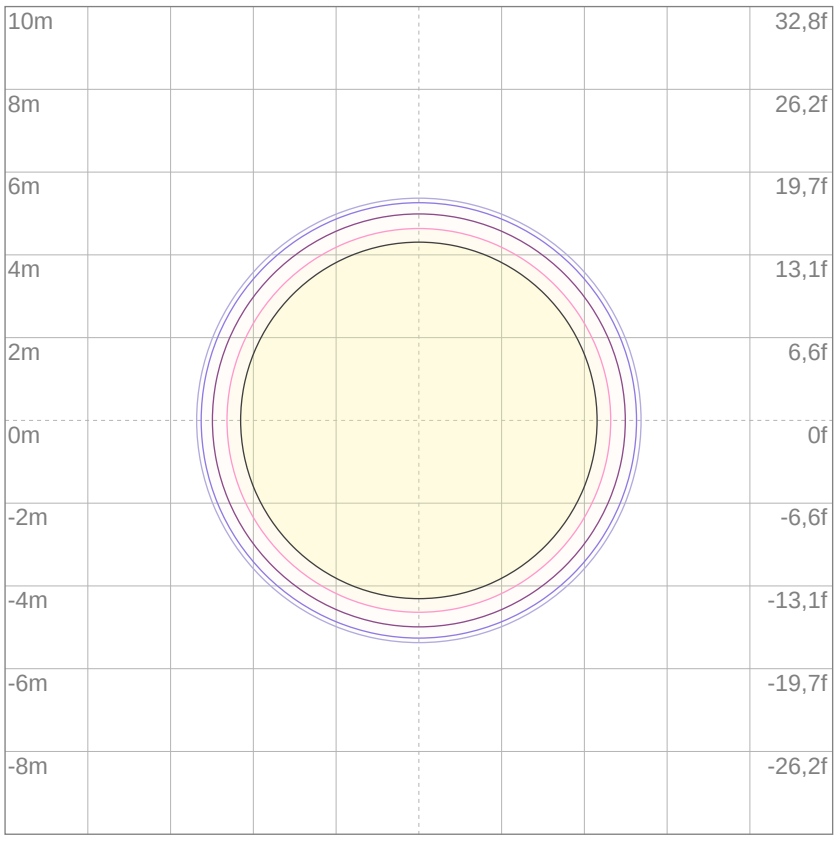

| | | |
|---|---|---|
| 10% | 947 cd |
| 20% | 1894 cd |
| 30% | 2841 cd |
| 40% | 3788 cd |
| 50% | 4735 cd |
| 60% | 5682 cd |
| 70% | 6629 cd |
| 80% | 7576 cd |

Conditions:

Number of c-planes: 2

Candela at center: 9470 cd

## ISO LUX DIAGRAM




Mounting height: 10 meters (33 feet)

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

Conditions:

Number of c-planes: 2

Lux at center: 94,7 lx

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



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Total lumen output:

4840 lm

Peak candela output:

9984 cd

Light quality:

CRI: 93,2

Color temperature:

3220 K

## PRODUCT NAME:

ECLCTPLUS

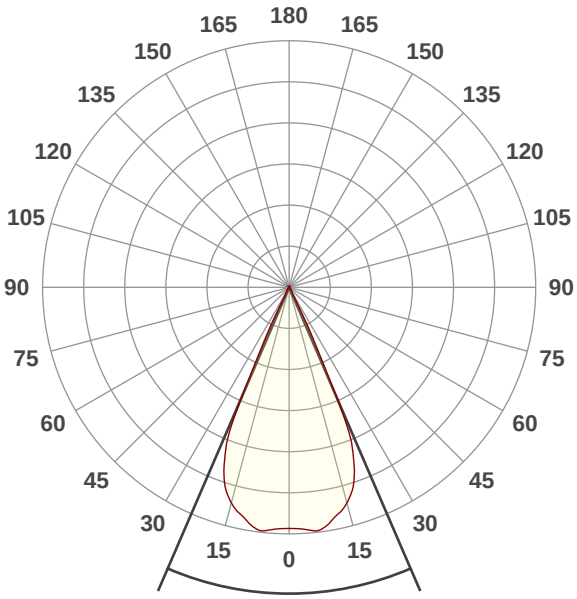
## MEASURAMENT CONDITIONS:

Beam angle:
PRL50

Target:
3200K HQ

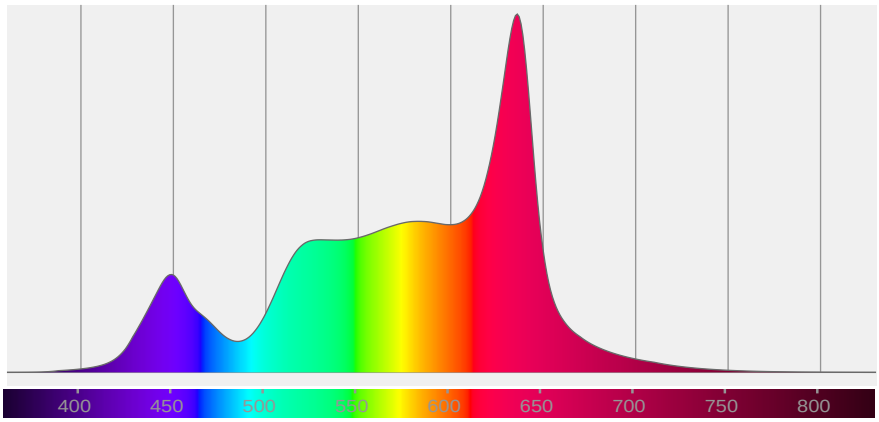
Operator:
Paolo Carvone

Date and time:
14/07/2020 15:32:01

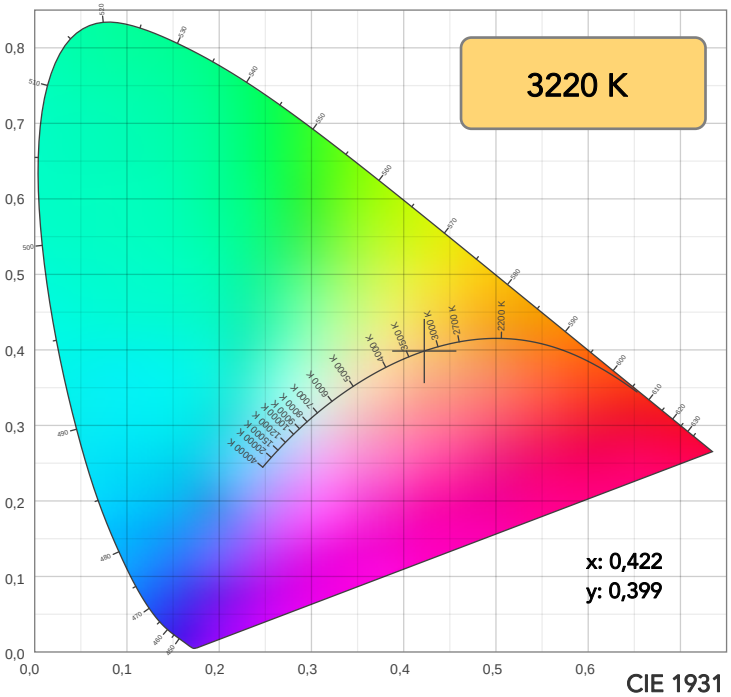



Beam angle 50%: 46,7°
Field angle 10%: 53,3°
Cut off angle 2.5%: 57°

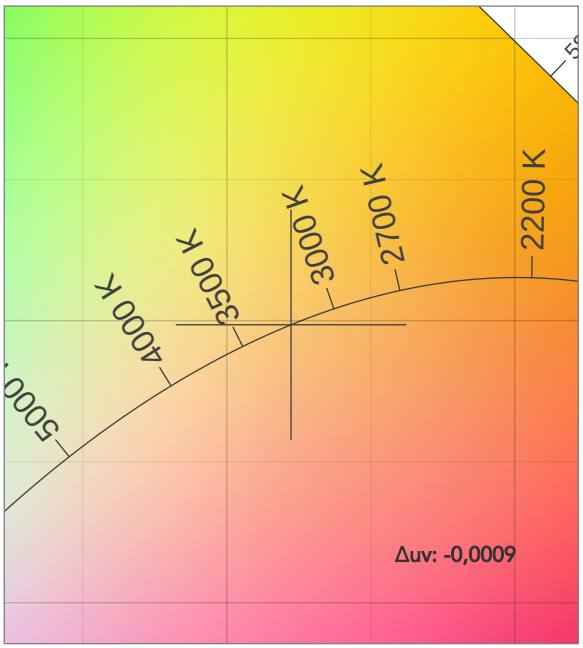
Spectra



# COLOR DETAILS

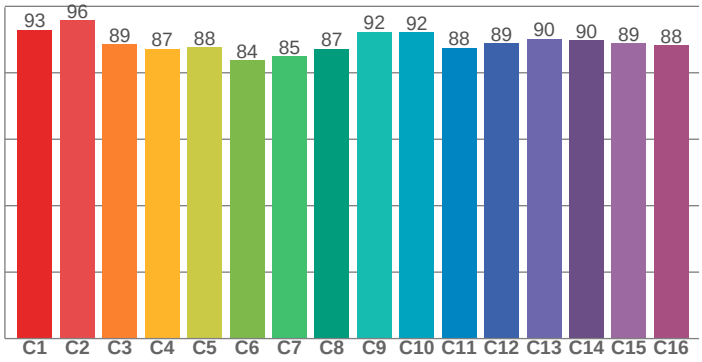



CIE 1931

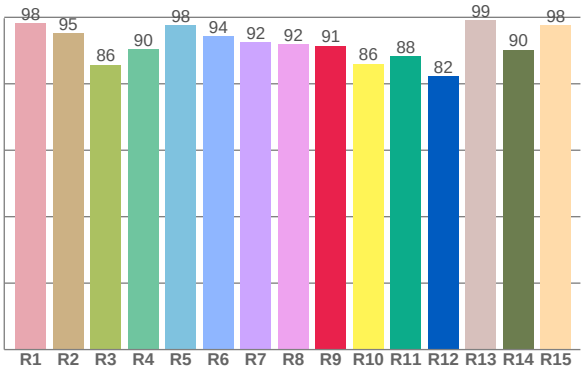



CIE 1931 ZOOM

## TM30: 89,5




## CRI: 93,2 (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 | 95,1 | 85,7 | 90,4 | 97,6 | 94,2 | 92,4 | 91,8 | 91,5 | 86,0 | 88,3 | 82,2 | 99,1 | 90,3 | 97,5 |

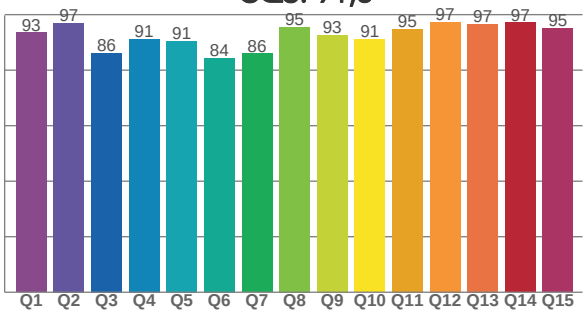
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 92,9 | 95,8 | 88,6 | 87,2 | 87,6 | 83,7 | 84,9 | 87,2 | 92,4 | 92,2 | 87,6 | 88,8 | 90,2 | 89,8 | 88,9 | 88,3 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 93,5 | 96,9 | 86,2 | 91,2 | 90,6 | 84,5 | 86,0 | 95,5 | 92,7 | 91,1 | 94,7 | 97,4 | 96,6 | 97,2 | 95,1 |

## CQS: 91,3




## 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 diviation from black body |
|---|---|---|---|---|---|---|---|---|---|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 3220 K | 93,2 | 91,5 | 89,5 | 106,5 | 91,3 | 86 | 0,422 | 0,399 | -0,0009 |



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# TM30 DETAILS

PROLiGHTS

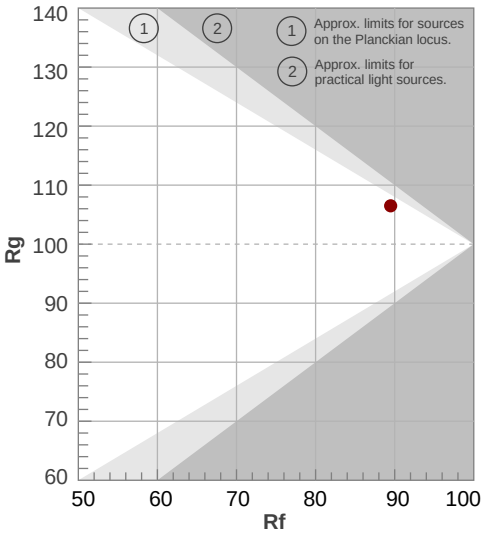
**Rf 89,5**

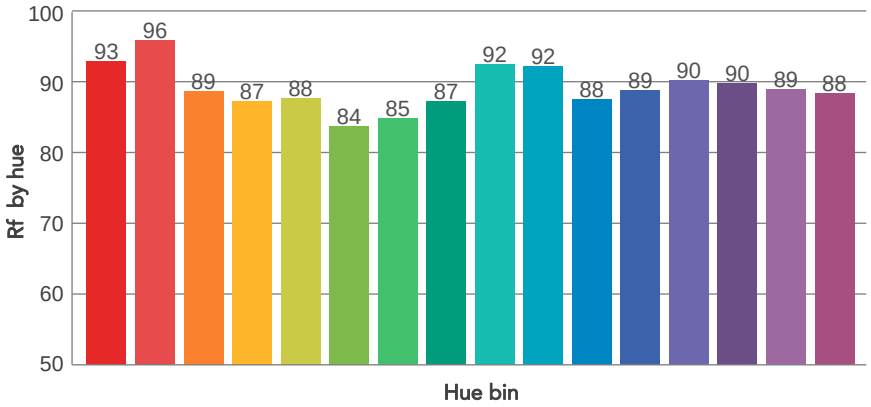
Fidelity index Rf

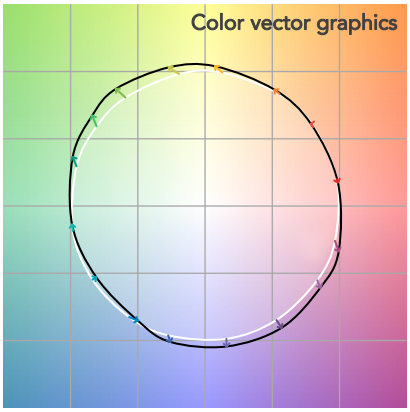
**Rg 106,5**

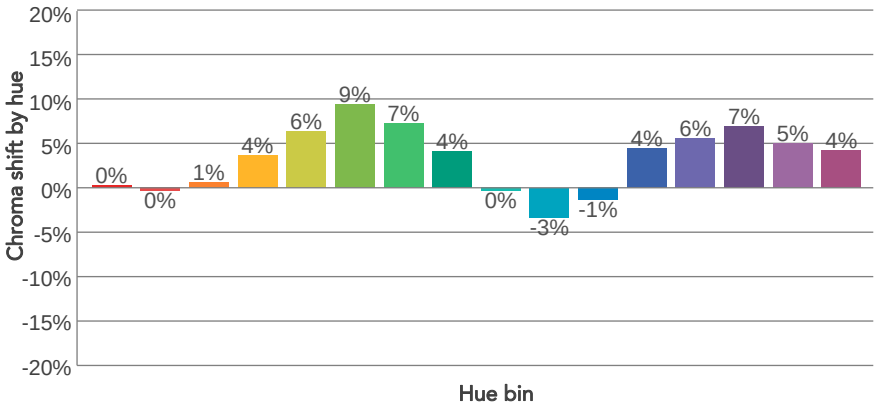
Gammut index

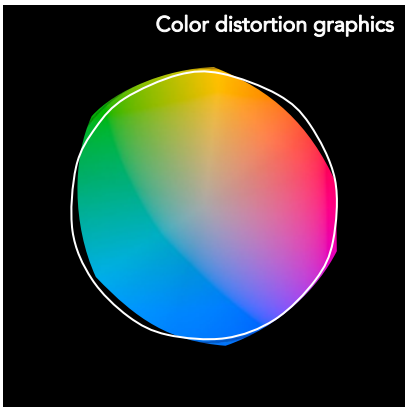
| | | Graphic shifts (%) | |
|---|---|---|---|
| Hue Bin | $R_f$ | Chroma | Hue |
| 1 | 93 | 0% | -3% |
| 2 | 96 | 0% | 0% |
| 3 | 89 | 1% | 5% |
| 4 | 87 | 4% | 6% |
| 5 | 88 | 6% | 7% |
| 6 | 84 | 9% | 2% |
| 7 | 85 | 7% | -5% |
| 8 | 87 | 4% | -6% |
| 9 | 92 | 0% | -5% |
| 10 | 92 | -3% | 0% |
| 11 | 88 | -1% | 7% |
| 12 | 89 | 4% | 3% |
| 13 | 90 | 6% | -1% |
| 14 | 90 | 7% | 0% |
| 15 | 89 | 5% | -3% |
| 16 | 88 | 4% | -7% |

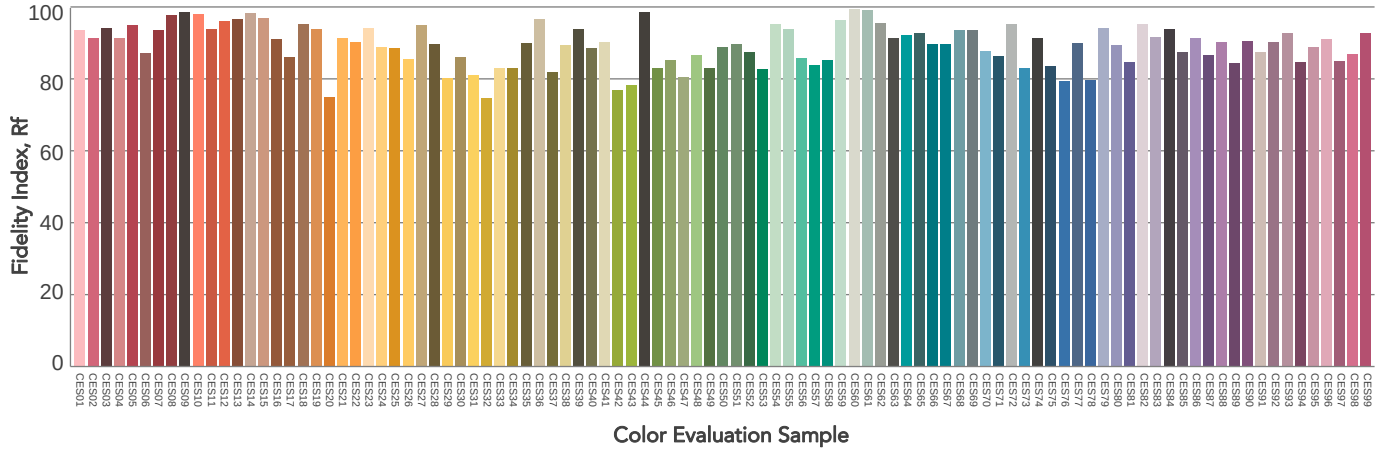




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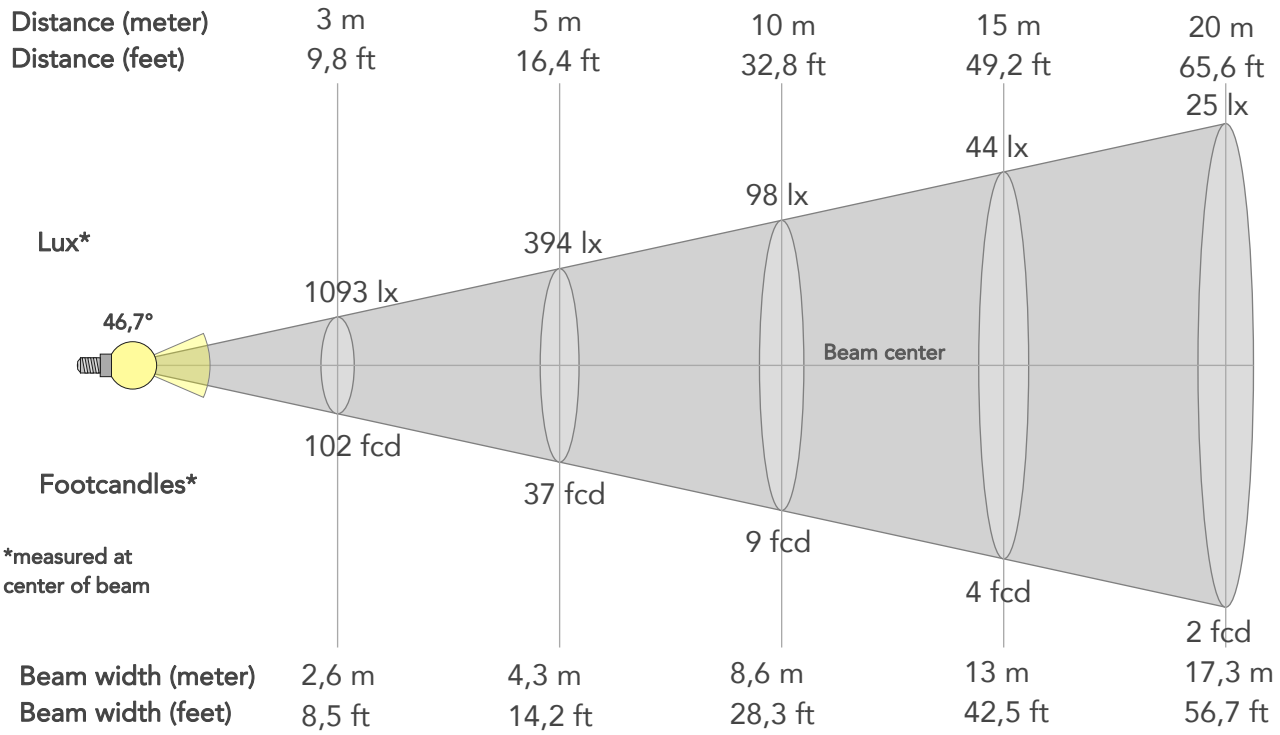
# BEAM DETAILS

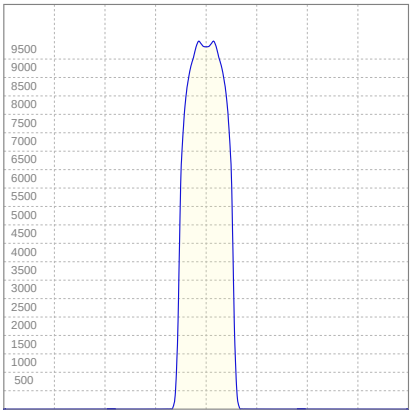
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|---|---|---|---|---|
| 46,7° | 53,3° | 57° | 99,6% | 99,5% |




## BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 9840lx | 2460lx | 1093lx | 615lx | 394lx | 175lx | 98lx | 44lx | 25lx | 16lx | 11lx | 6lx | 4lx |
| Footcand. | 914fcd | 229fcd | 102fcd | 57fcd | 37fcd | 16fcd | 9fcd | 4fcd | 2fcd | 1fcd | 1fcd | 1fcd | 0fcd |
| Beam wid. | 0,9m | 1,7m | 2,6m | 3,5m | 4,3m | 6,5m | 8,6m | 13m | 17,3m | 21,6m | 25,9m | 34,5m | 43,2m |
| Beam wid. | 2,8ft | 5,7ft | 8,5ft | 11,3ft | 14,2ft | 21,2ft | 28,3ft | 42,5ft | 56,7ft | 70,8ft | 85ft | 113,3ft | 141,6ft |

## LINEAR DISTRIBUTION DIAGRAM




## ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---|---|---|---|
| 226V | 0,867A | 182,7W | 26lm/W |



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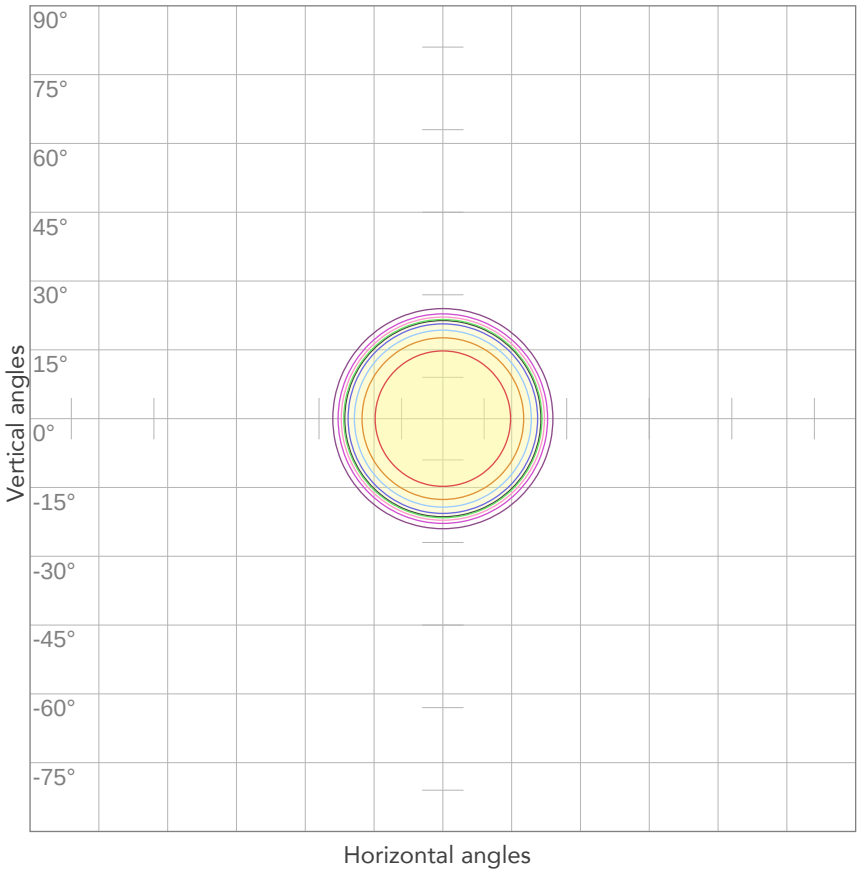
# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



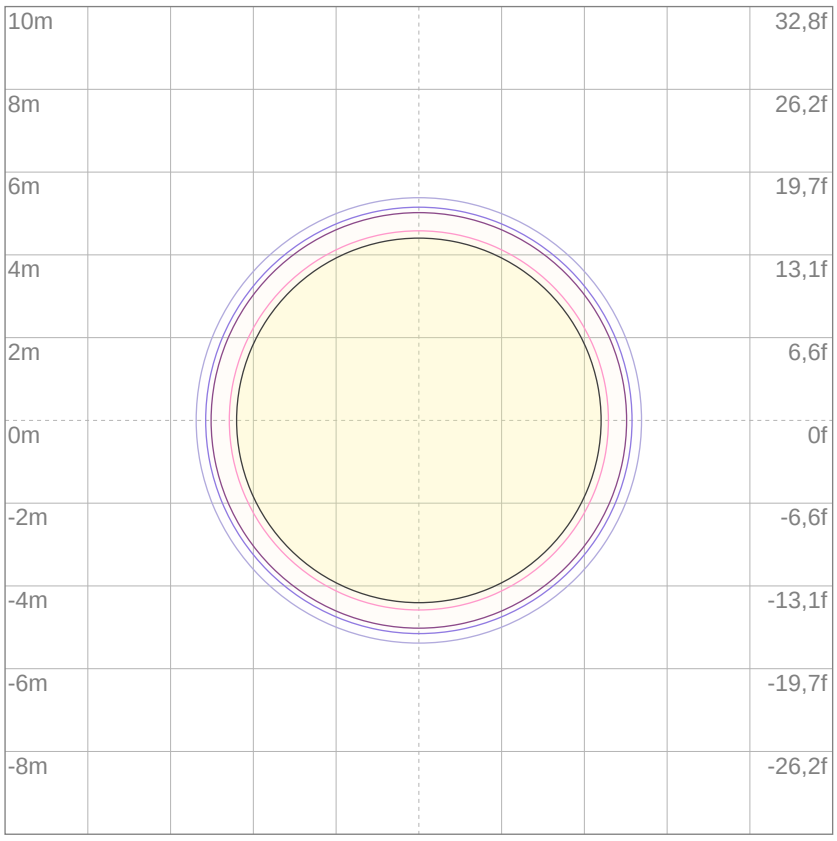

| | | |
|---|---|---|
| 10% | 984 cd |
| 20% | 1968 cd |
| 30% | 2952 cd |
| 40% | 3936 cd |
| 50% | 4920 cd |
| 60% | 5904 cd |
| 70% | 6888 cd |
| 80% | 7872 cd |

Conditions:

Number of c-planes: 2

Candela at center: 9840 cd

## ISO LUX DIAGRAM




Mounting height: 10 meters (33 feet)

| | |
|---|---|
| 3% | 2,95 lx |
| 5% | 4,92 lx |
| 10% | 9,84 lx |
| 30% | 29,5 lx |
| 50% | 49,2 lx |

Conditions:

Number of c-planes: 2

Lux at center: 98,4 lx

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

Total lumen output:

5126 lm

Peak candela output:

10613 cd

Light quality:

CRI: 95,3

Color temperature:

3990 K

## PRODUCT NAME:

ECLCTPLUS

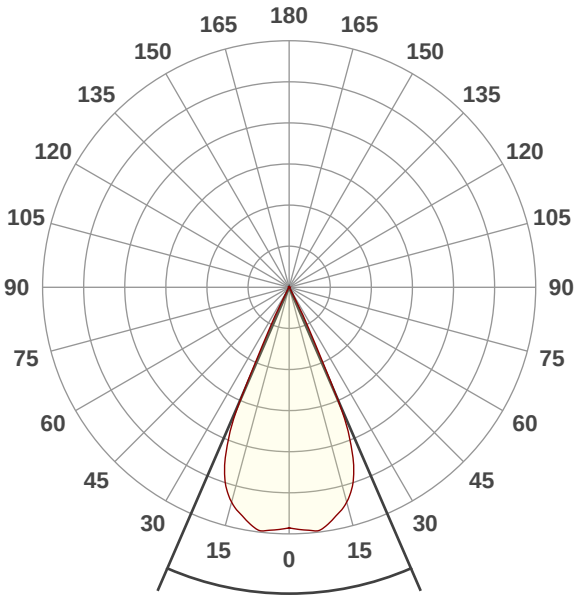
## MEASURAMENT CONDITIONS:

Beam angle:
PRL50

Target:
4000K HQ

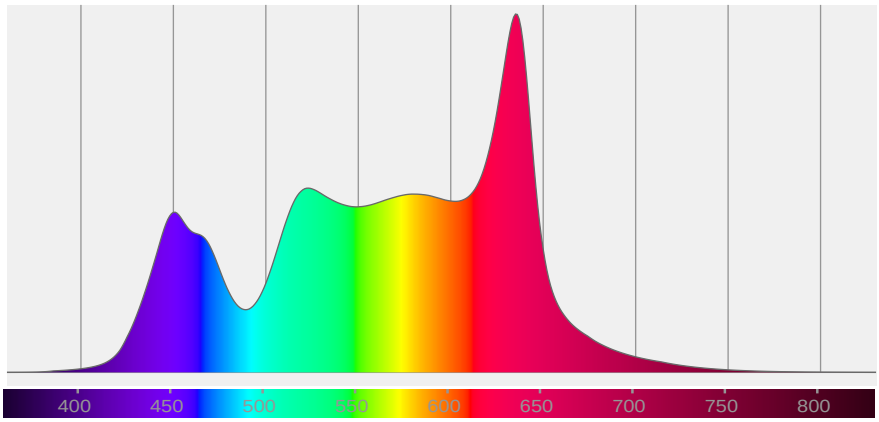
Operator:
Paolo Carvone

Date and time:
14/07/2020 15:26:40




Beam angle 50%: 46,9°
Field angle 10%: 53,4°
Cut off angle 2.5%: 56,4°

Spectra



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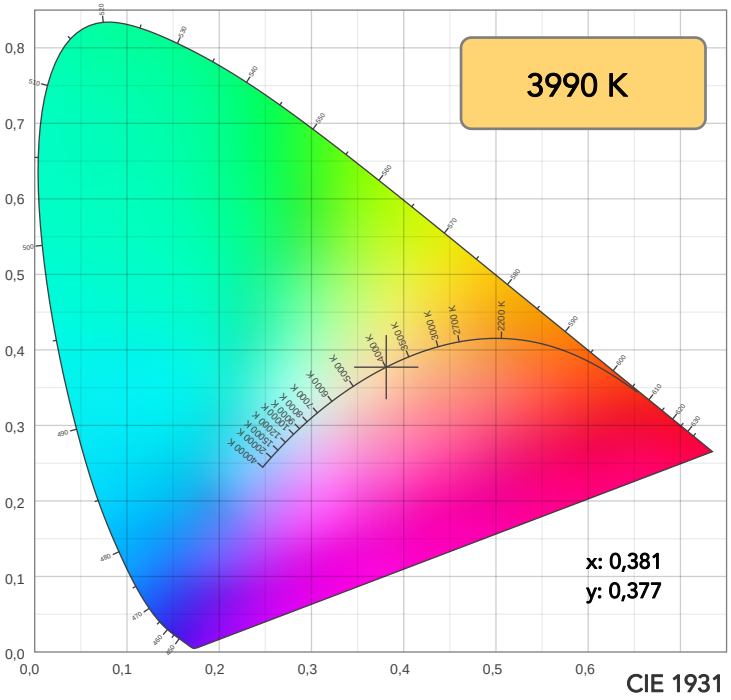
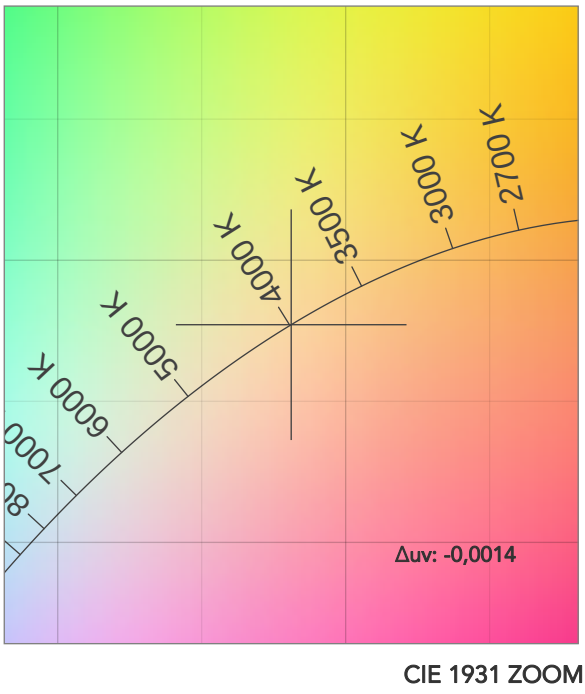
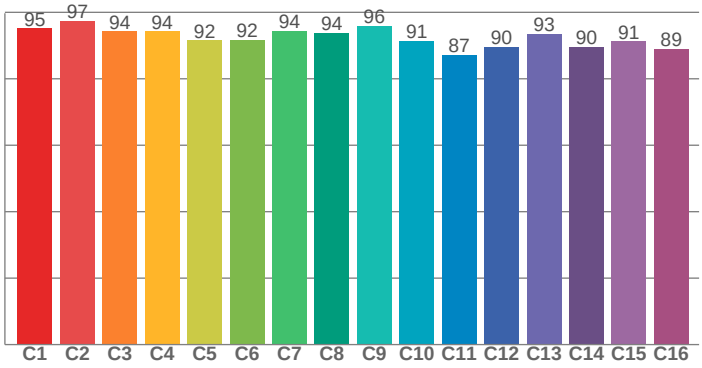
# COLOR DETAILS

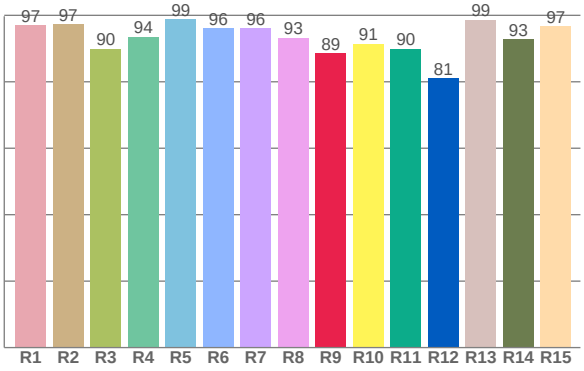



## TM30: 92,6




## CRI: 95,3 (R1-R8)




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

| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 97,1 | 97,4 | 89,9 | 93,5 | 98,8 | 96,0 | 96,0 | 93,2 | 88,5 | 91,5 | 89,9 | 81,1 | 98,7 | 92,9 | 96,8 |

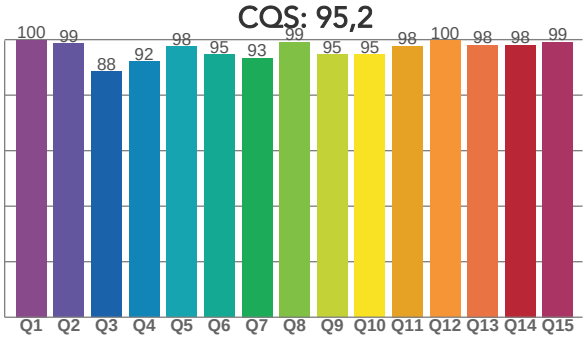
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 95,2 | 97,5 | 94,3 | 94,3 | 91,5 | 91,8 | 94,5 | 93,8 | 95,9 | 91,4 | 87,1 | 89,5 | 93,5 | 89,6 | 91,3 | 89,1 |

CQS Q values

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

## CQS: 95,2




## 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 diviation from black body |
|---|---|---|---|---|---|---|---|---|---|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 3990 K | 95,3 | 88,5 | 92,6 | 103,7 | 95,2 | 92 | 0,381 | 0,377 | -0,0014 |



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# TM30 DETAILS

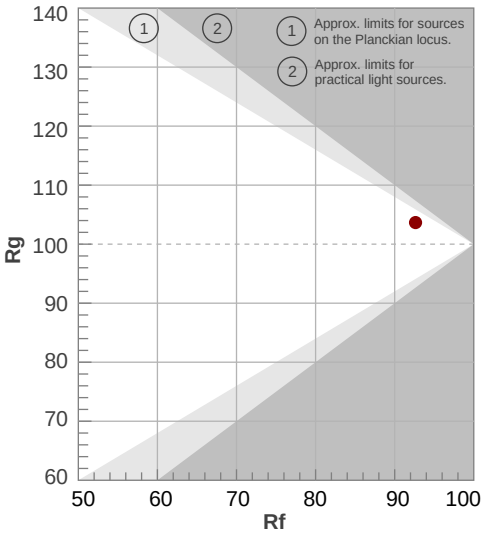
**Rf 92,6**

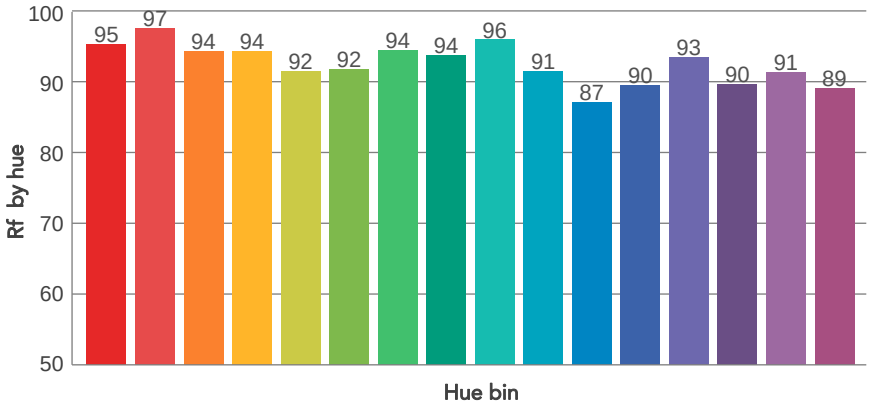
Fidelity index Rf

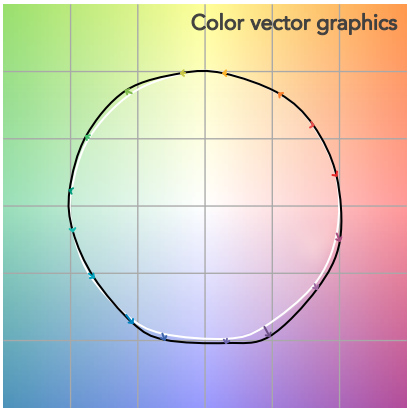
**Rg 103,7**

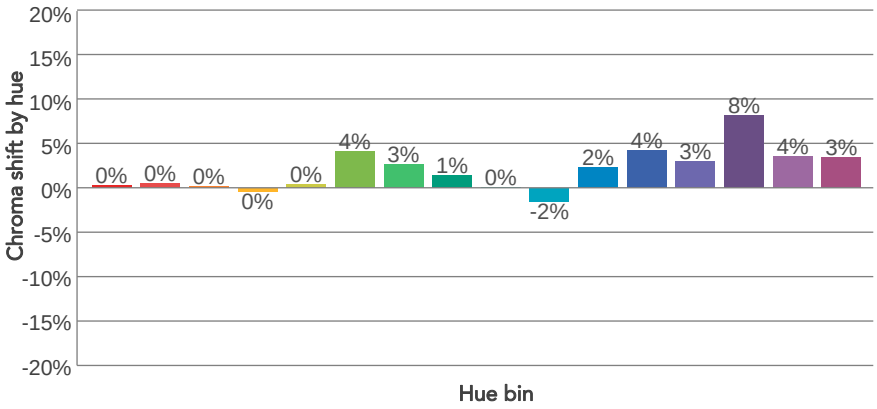
Gammut index

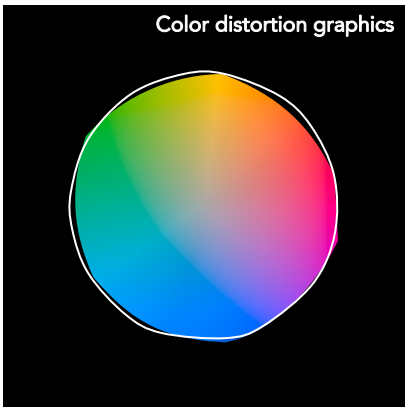
| | | Graphic shifts (%) | |
|---|---|---|---|
| Hue Bin | $R_f$ | Chroma | Hue |
| 1 | 95 | 0% | -1% |
| 2 | 97 | 0% | -1% |
| 3 | 94 | 0% | 2% |
| 4 | 94 | 0% | 2% |
| 5 | 92 | 0% | 3% |
| 6 | 92 | 4% | 3% |
| 7 | 94 | 3% | 0% |
| 8 | 94 | 1% | 0% |
| 9 | 96 | 0% | 2% |
| 10 | 91 | -2% | 5% |
| 11 | 87 | 2% | 7% |
| 12 | 90 | 4% | 3% |
| 13 | 93 | 3% | -1% |
| 14 | 90 | 8% | -1% |
| 15 | 91 | 4% | -2% |
| 16 | 89 | 3% | -5% |

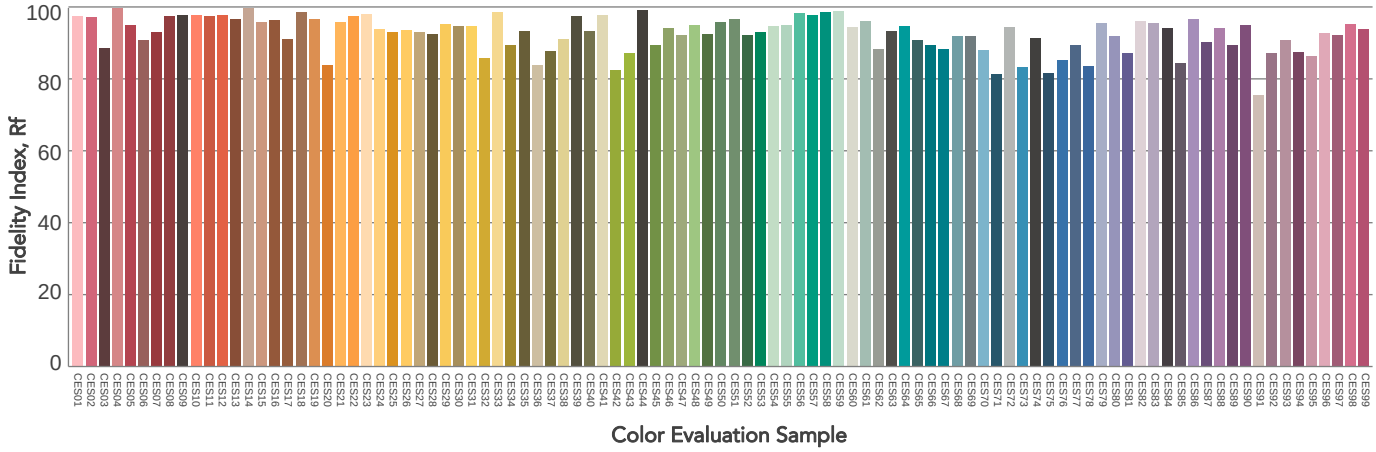




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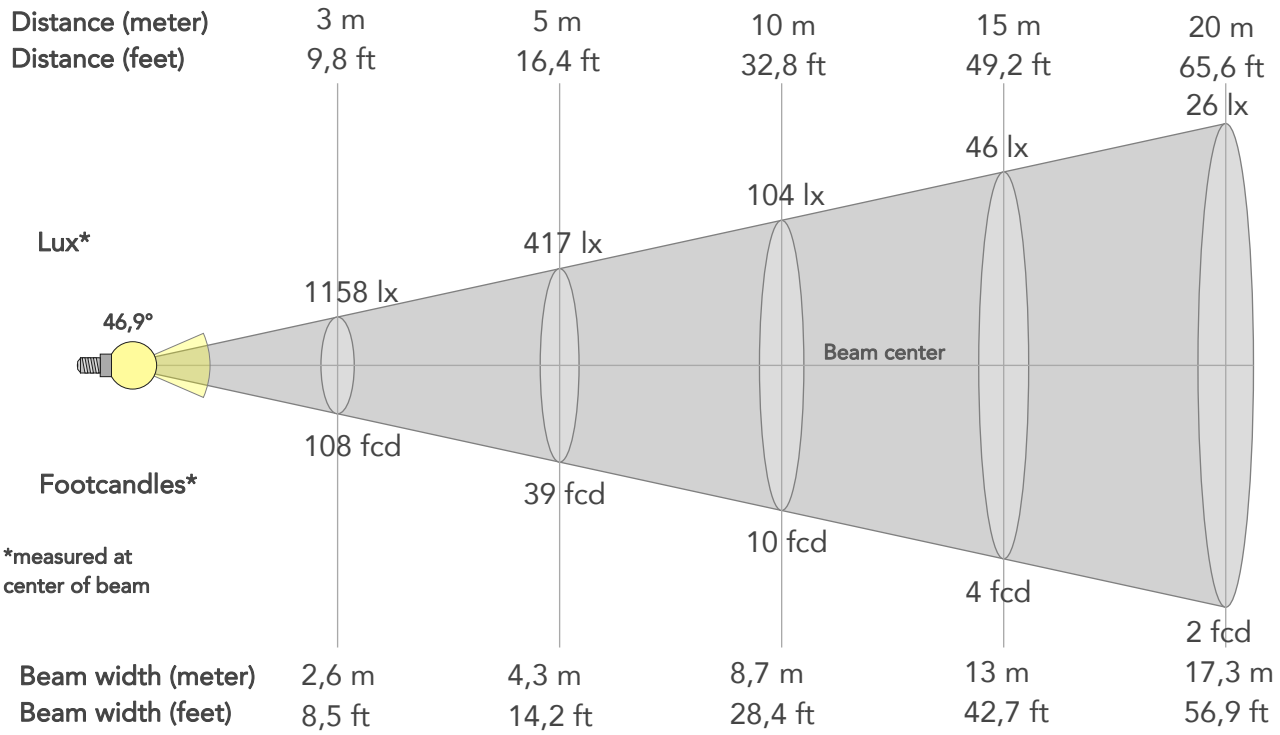
# BEAM DETAILS

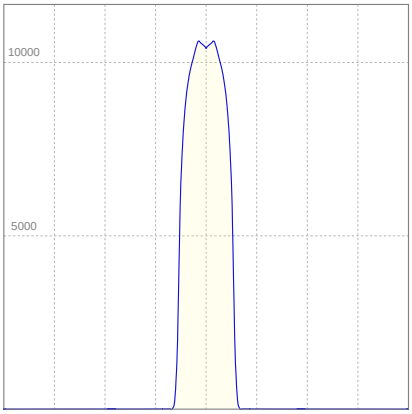
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|---|---|---|---|---|
| 46,9° | 53,4° | 56,4° | 99,5% | 99,5% |




## BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 10421lx | 2605lx | 1158lx | 651lx | 417lx | 185lx | 104lx | 46lx | 26lx | 17lx | 12lx | 7lx | 4lx |
| Footcand. | 968fcd | 242fcd | 108fcd | 61fcd | 39fcd | 17fcd | 10fcd | 4fcd | 2fcd | 2fcd | 1fcd | 1fcd | 0fcd |
| Beam wid. | 0,9m | 1,7m | 2,6m | 3,5m | 4,3m | 6,5m | 8,7m | 13m | 17,3m | 21,7m | 26m | 34,7m | 43,3m |
| Beam wid. | 2,9ft | 5,7ft | 8,5ft | 11,4ft | 14,2ft | 21,3ft | 28,4ft | 42,7ft | 56,9ft | 71,1ft | 85,3ft | 113,7ft | 142,2ft |

## LINEAR DISTRIBUTION DIAGRAM




## ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---|---|---|---|
| 226V | 0,939A | 199,4W | 26lm/W |



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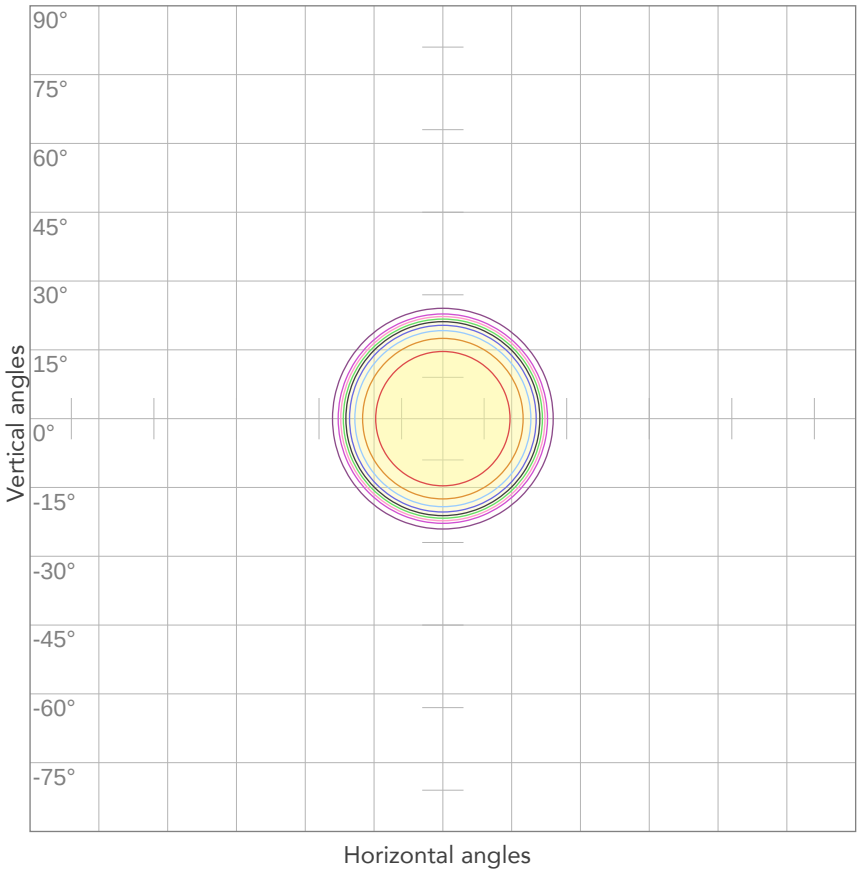
# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



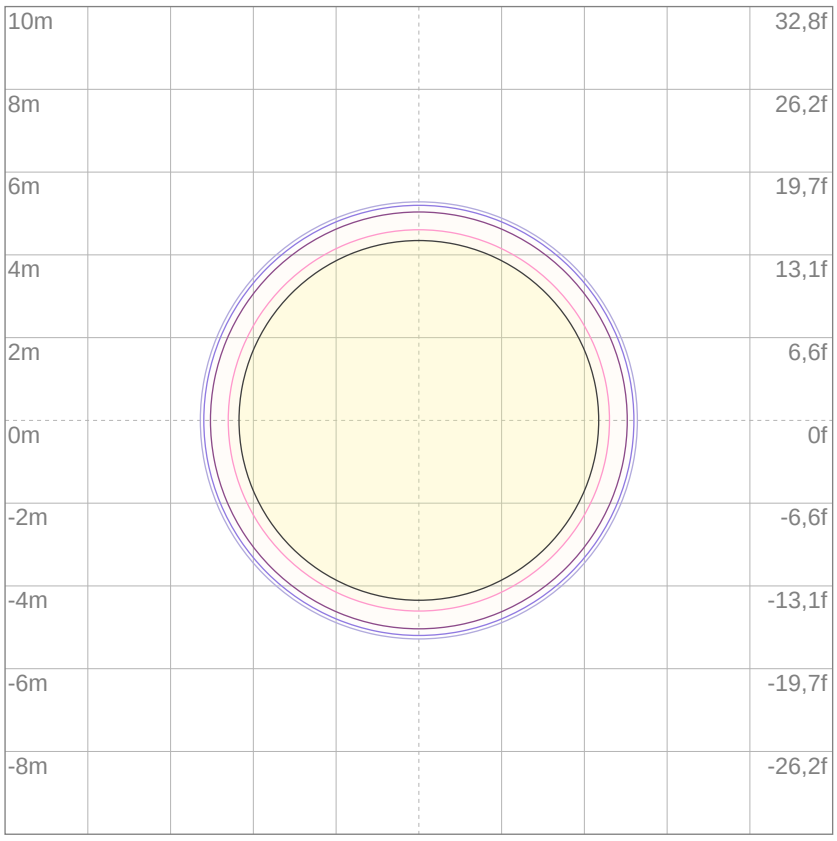

| | |
|---|---|
| 10% | 1042 cd |
| 20% | 2084 cd |
| 30% | 3126 cd |
| 40% | 4168 cd |
| 50% | 5211 cd |
| 60% | 6253 cd |
| 70% | 7295 cd |
| 80% | 8337 cd |

Conditions:

Number of c-planes: 2

Candela at center: 10421 cd

## ISO LUX DIAGRAM




Mounting height: 10 meters (33 feet)

| | |
|---|---|
| 3% | 3,13 lx |
| 5% | 5,21 lx |
| 10% | 10,4 lx |
| 30% | 31,3 lx |
| 50% | 52,1 lx |

Conditions:

Number of c-planes: 2

Lux at center: 104 lx

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

Total lumen output:

5505 lm

Peak candela output:

11367 cd

Light quality:

CRI: 96,8

Color temperature:

5636 K

## PRODUCT NAME:

ECLCTPLUS

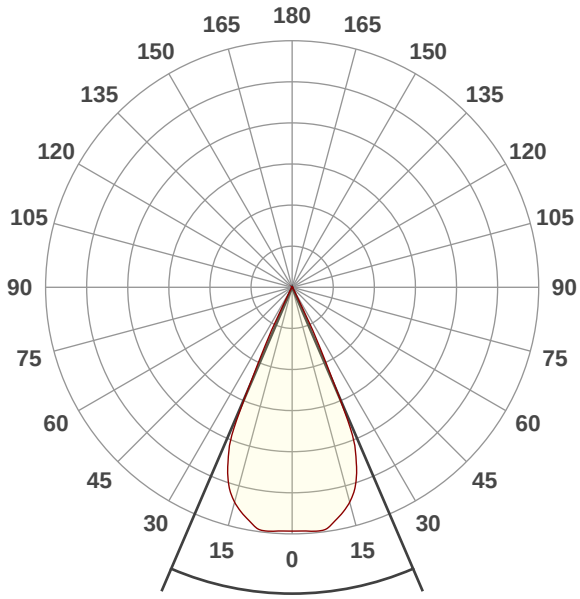
## MEASURAMENT CONDITIONS:

Beam angle:
PRL50

Target:
5600K HQ

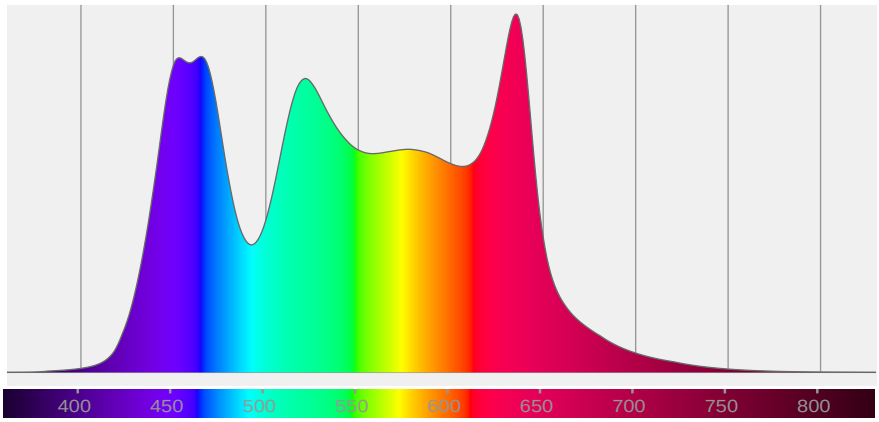
Operator:
Paolo Carvone

Date and time:
14/07/2020 15:28:19




Beam angle 50%: 46,5°
Field angle 10%: 53,5°
Cut off angle 2.5%: 57,5°

Spectra



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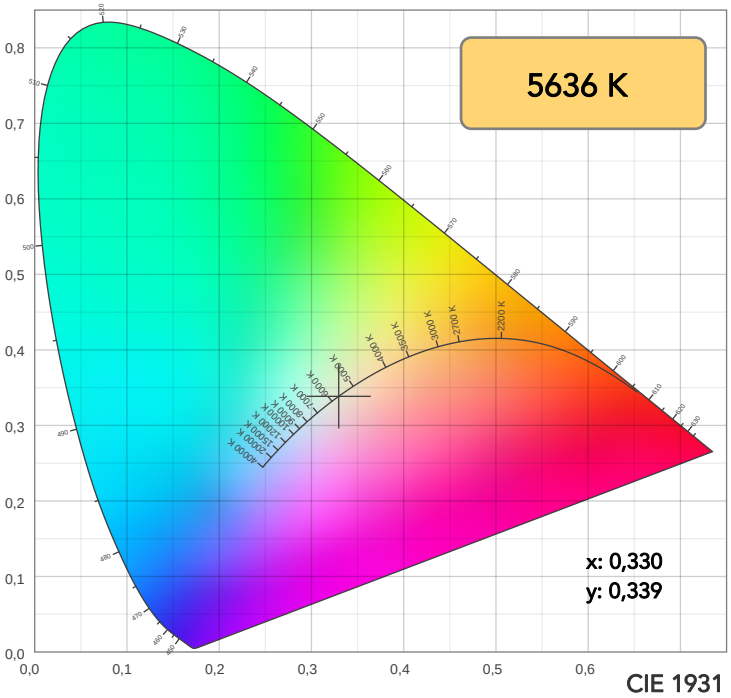
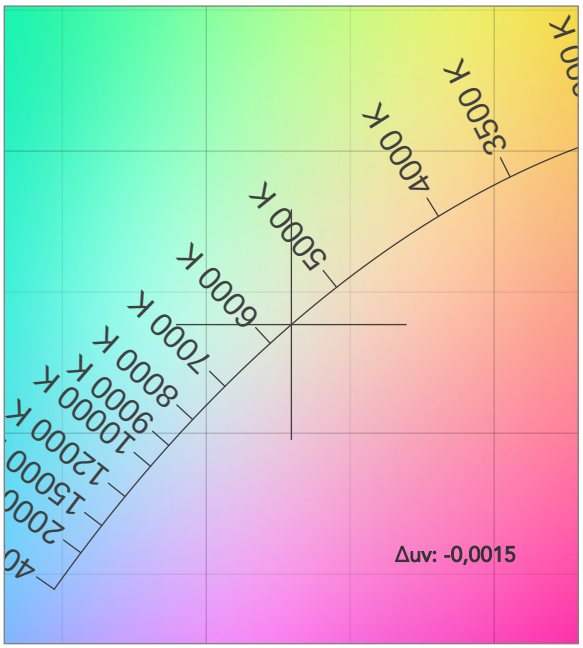
# COLOR DETAILS

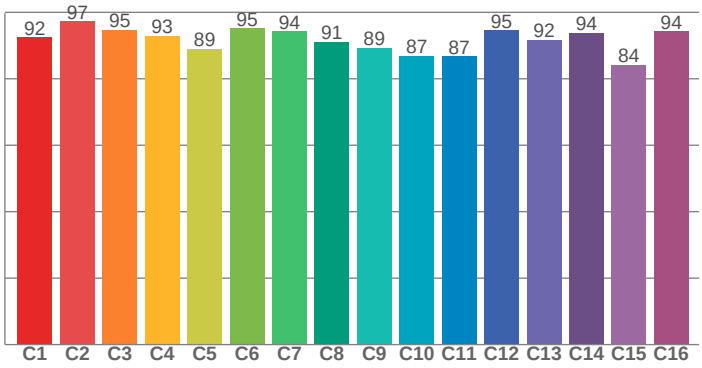



CIE 1931

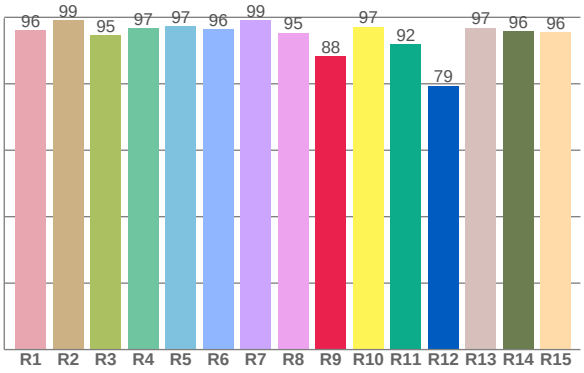



CIE 1931 ZOOM

## TM30: 91,7




## CRI: 96,8 (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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 96,0 | 99,1 | 94,5 | 96,7 | 97,2 | 96,3 | 99,2 | 95,3 | 88,3 | 97,2 | 92,0 | 79,4 | 96,9 | 95,8 | 95,6 |

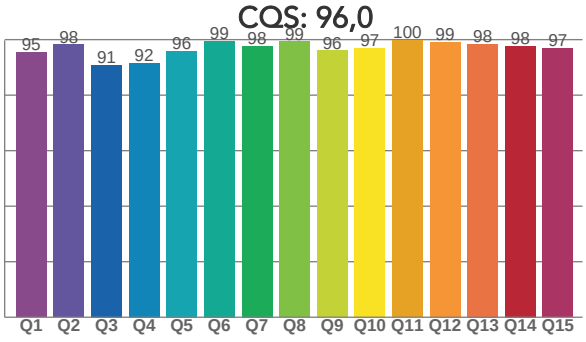
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 92,4 | 97,3 | 94,8 | 92,8 | 89,0 | 95,1 | 94,3 | 91,1 | 89,4 | 86,9 | 86,8 | 94,6 | 91,8 | 93,8 | 84,3 | 94,2 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 95,4 | 98,2 | 90,9 | 91,6 | 95,8 | 99,5 | 97,8 | 99,3 | 96,0 | 97,0 | 99,7 | 99,1 | 98,5 | 97,7 | 96,9 |

## CQS: 96,0




## 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 diviation from black body |
|---|---|---|---|---|---|---|---|---|---|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 5636 K | 96,8 | 88,3 | 91,7 | 100,6 | 96,0 | 95 | 0,330 | 0,339 | -0,0015 |



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# TM30 DETAILS

PROLiGHTS

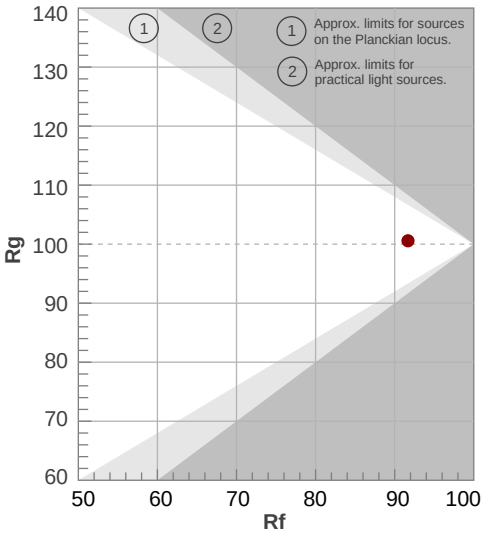
**Rf 91,7**

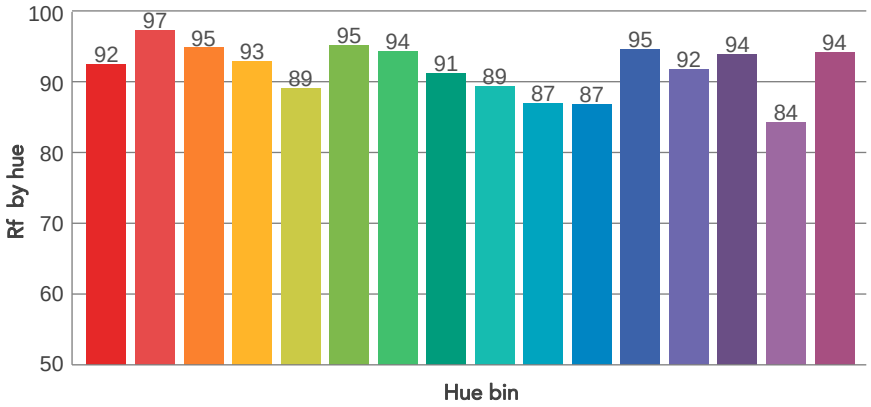
Fidelity index Rf

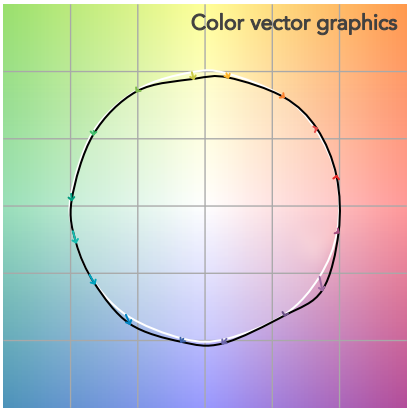
**Rg 100,6**

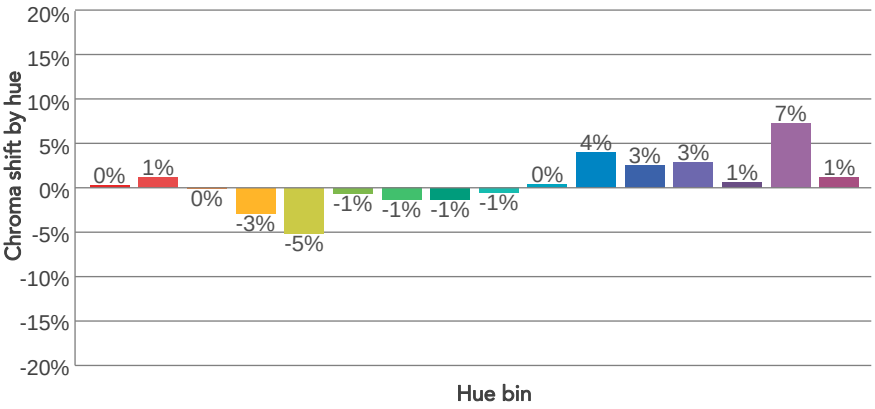
Gammut index

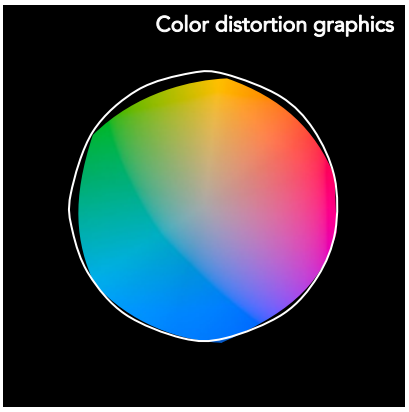
| | | Graphic shifts (%) | |
|---|---|---|---|
| Hue Bin | $R_f$ | Chroma | Hue |
| 1 | 92 | 0% | 1% |
| 2 | 97 | 1% | 0% |
| 3 | 95 | 0% | -2% |
| 4 | 93 | -3% | -2% |
| 5 | 89 | -5% | 0% |
| 6 | 95 | -1% | 2% |
| 7 | 94 | -1% | 2% |
| 8 | 91 | -1% | 4% |
| 9 | 89 | -1% | 9% |
| 10 | 87 | 0% | 7% |
| 11 | 87 | 4% | 6% |
| 12 | 95 | 3% | -1% |
| 13 | 92 | 3% | -3% |
| 14 | 94 | 1% | -1% |
| 15 | 84 | 7% | -7% |
| 16 | 94 | 1% | -1% |

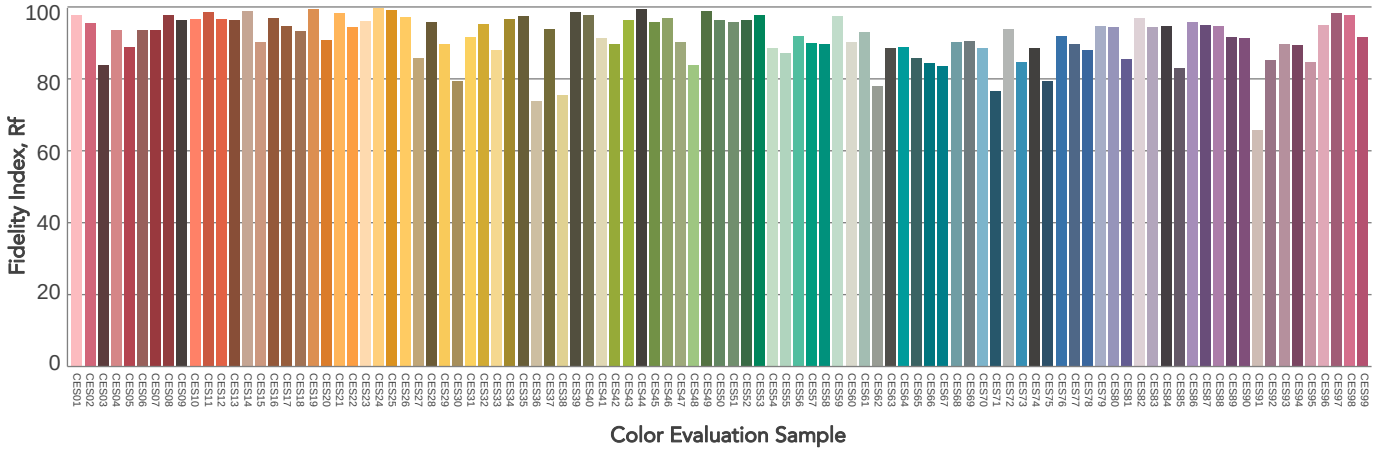




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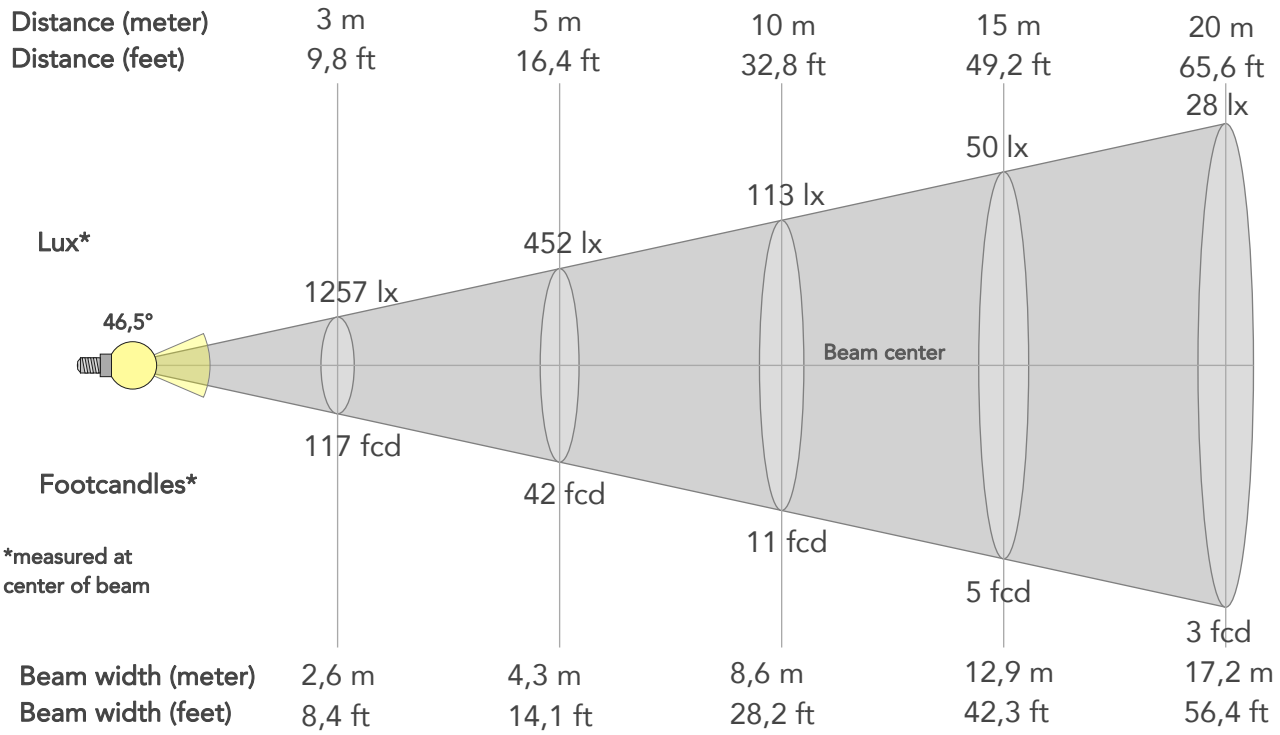
# BEAM DETAILS

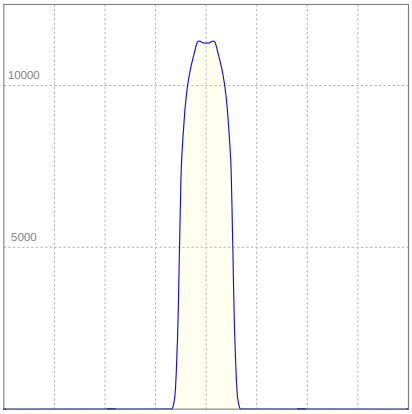
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|---|---|---|---|---|
| 46,5° | 53,5° | 57,5° | 99,5% | 99,4% |




## BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 11309lx | 2827lx | 1257lx | 707lx | 452lx | 201lx | 113lx | 50lx | 28lx | 18lx | 13lx | 7lx | 5lx |
| Footcand. | 1051fcd | 263fcd | 117fcd | 66fcd | 42fcd | 19fcd | 11fcd | 5fcd | 3fcd | 2fcd | 1fcd | 1fcd | 0fcd |
| Beam wid. | 0,9m | 1,7m | 2,6m | 3,4m | 4,3m | 6,4m | 8,6m | 12,9m | 17,2m | 21,5m | 25,8m | 34,4m | 43m |
| Beam wid. | 2,8ft | 5,7ft | 8,4ft | 11,3ft | 14,1ft | 21,1ft | 28,2ft | 42,3ft | 56,4ft | 70,5ft | 84,6ft | 112,8ft | 141ft |

## LINEAR DISTRIBUTION DIAGRAM




## ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---|---|---|---|
| 226V | 1,06A | 227,1W | 24lm/W |



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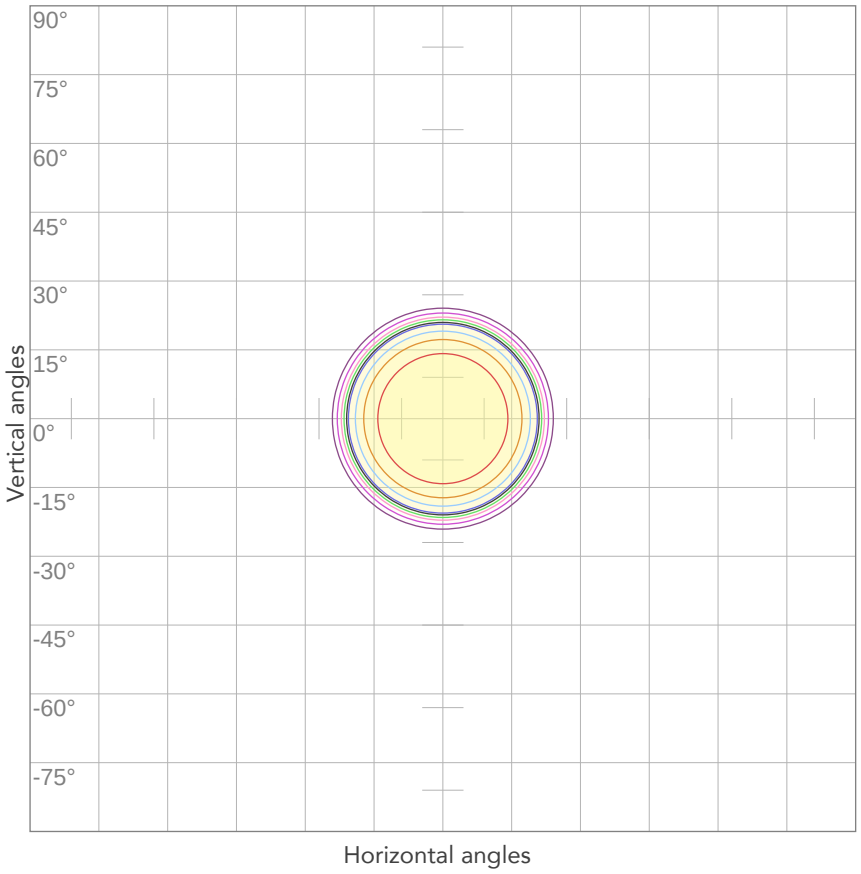
# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



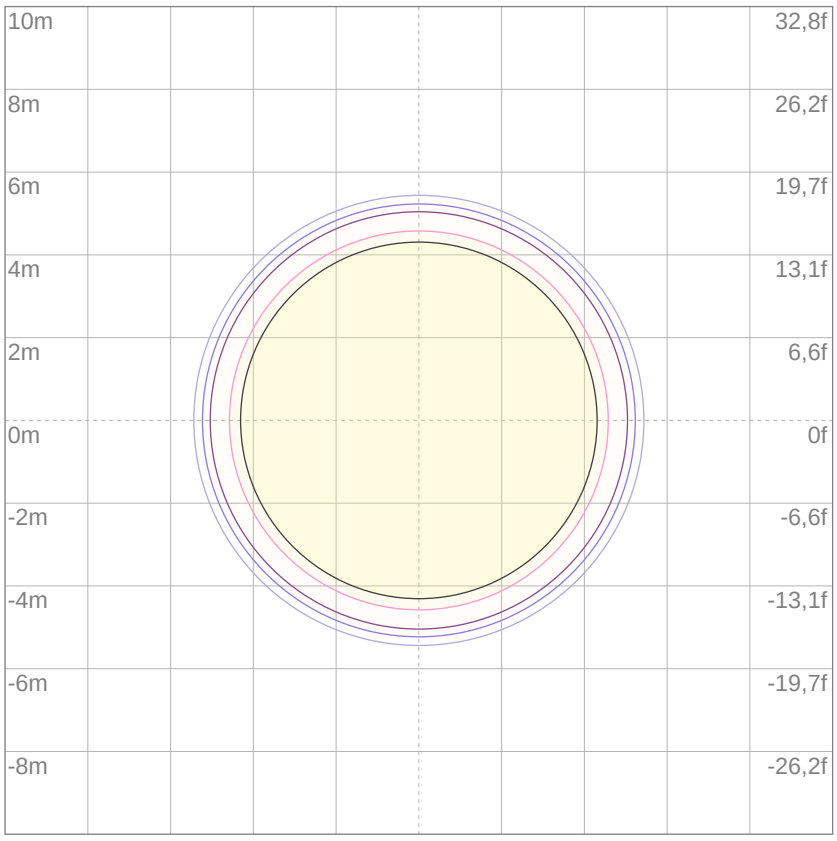

| | | |
|---|---|---|
| 10% | 1131 cd |
| 20% | 2262 cd |
| 30% | 3393 cd |
| 40% | 4524 cd |
| 50% | 5654 cd |
| 60% | 6785 cd |
| 70% | 7916 cd |
| 80% | 9047 cd |

Conditions:

Number of c-planes: 2

Candela at center: 11309 cd

## ISO LUX DIAGRAM




| | |
|---|---|
| 3% | 3,39 lx |
| 5% | 5,65 lx |
| 10% | 11,3 lx |
| 30% | 33,9 lx |
| 50% | 56,5 lx |

Conditions:

Number of c-planes: 2

Lux at center: 113 lx

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



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Total lumen output:

5512 lm

Peak candela output:

11403 cd

Light quality:

CRI: 96,7

Color temperature:

5914 K

## PRODUCT NAME:

ECLCTPLUS

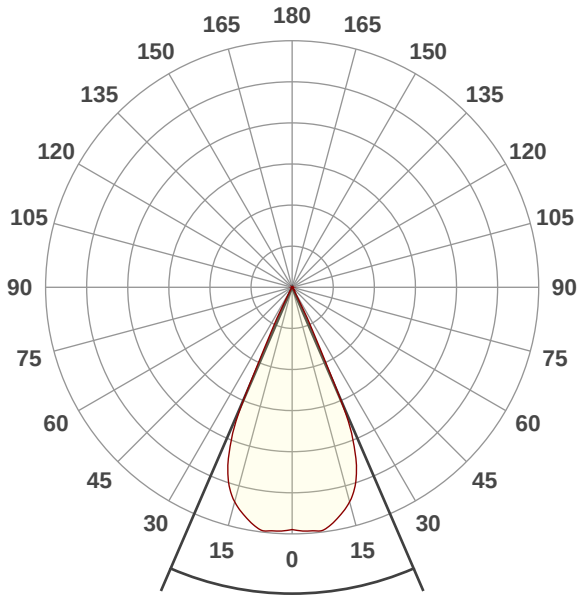
## MEASURAMENT CONDITIONS:

Beam angle:
PRL50

Target:
6000K HQ

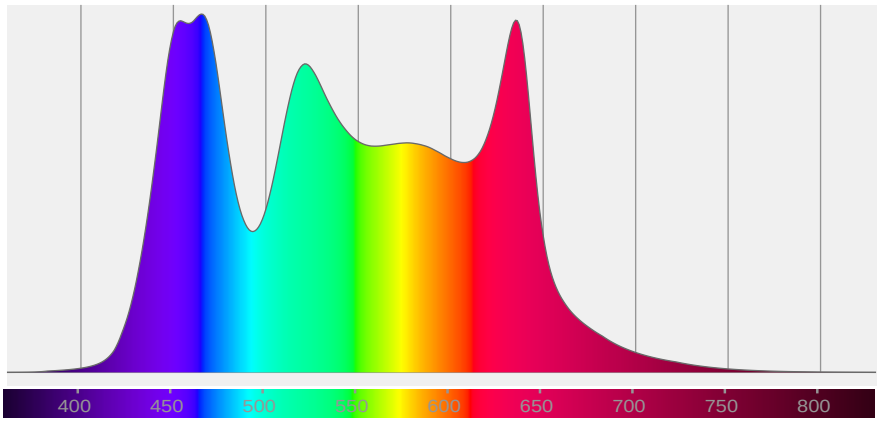
Operator:
Paolo Carvone

Date and time:
14/07/2020 15:29:44

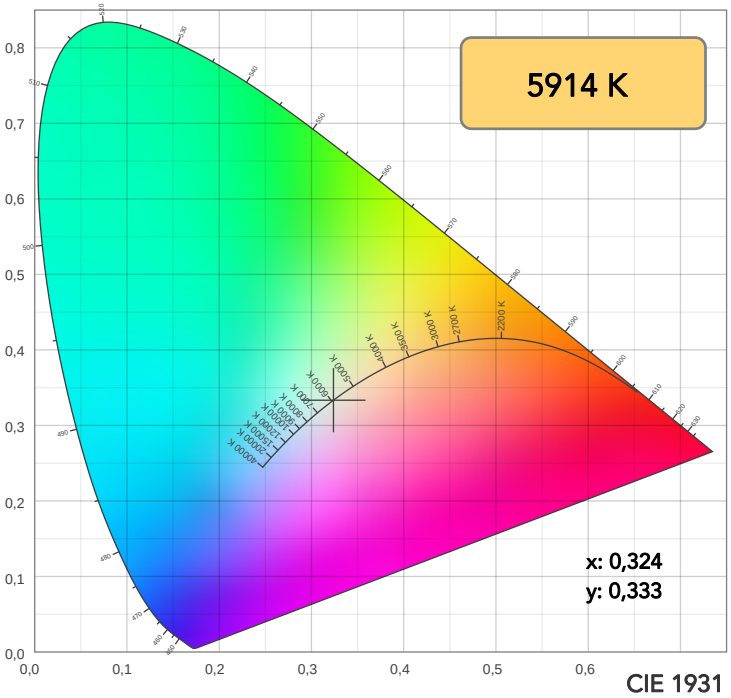



Beam angle 50%: 46,7°
Field angle 10%: 53,6°
Cut off angle 2.5%: 57,6°

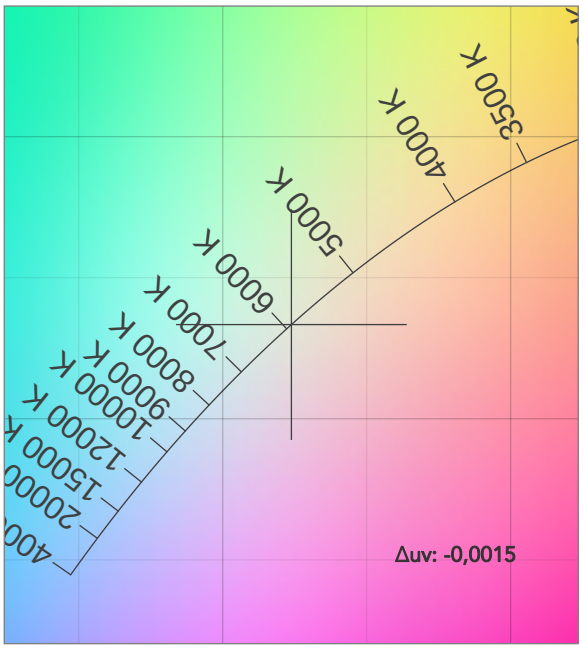
Spectra



# COLOR DETAILS

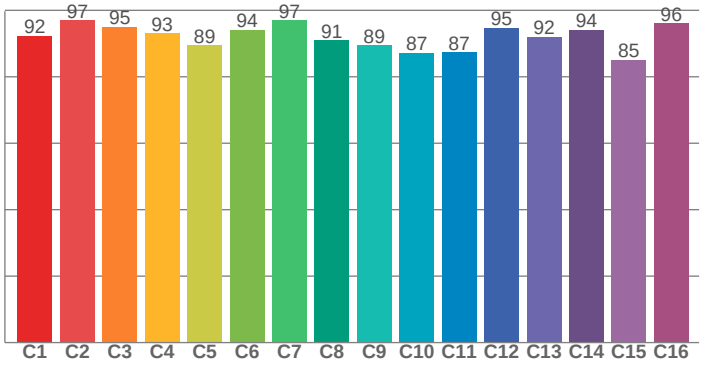



CIE 1931

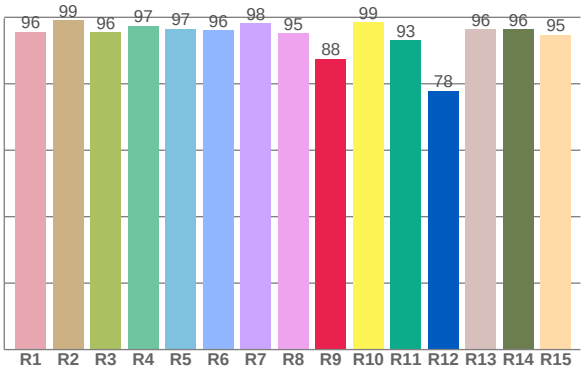



CIE 1931 ZOOM

## TM30: 91,9




## CRI: 96,7 (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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 95,7 | 99,0 | 95,5 | 97,4 | 96,6 | 96,1 | 98,1 | 95,2 | 87,5 | 98,6 | 93,2 | 77,9 | 96,3 | 96,3 | 94,8 |

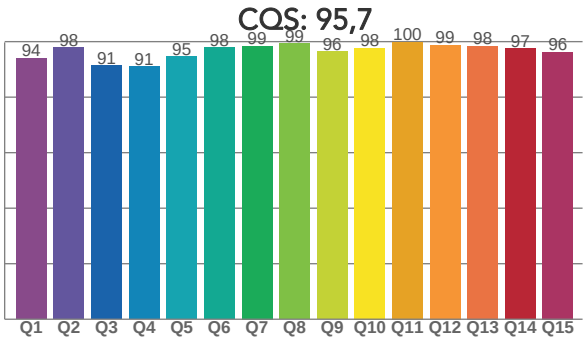
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 92,3 | 97,0 | 95,0 | 93,1 | 89,5 | 94,2 | 96,9 | 90,9 | 89,5 | 87,1 | 87,3 | 94,6 | 92,1 | 94,1 | 85,1 | 96,1 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 94,0 | 97,8 | 91,4 | 91,0 | 94,6 | 97,8 | 98,5 | 99,4 | 96,5 | 97,7 | 99,8 | 98,8 | 98,4 | 97,5 | 96,2 |

## CQS: 95,7




## 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 diviation from black body |
|---|---|---|---|---|---|---|---|---|---|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | TLCI | x | y | Δuv |
| 5914 K | 96,7 | 87,5 | 91,9 | 100,7 | 95,7 | 96 | 0,324 | 0,333 | -0,0015 |



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# TM30 DETAILS

PROLiGHTS

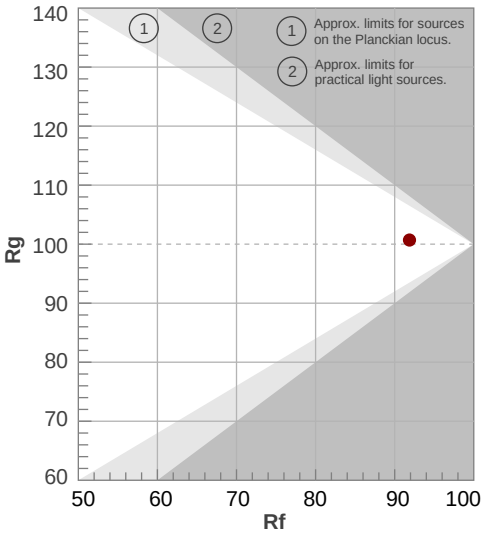
**Rf 91,9**

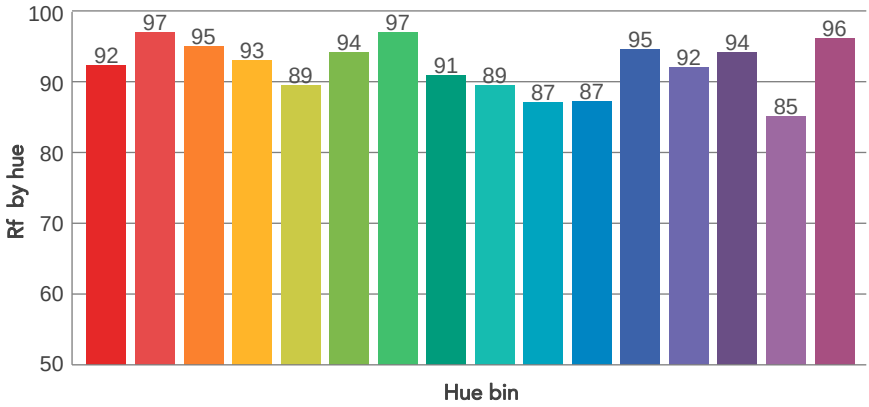
Fidelity index Rf

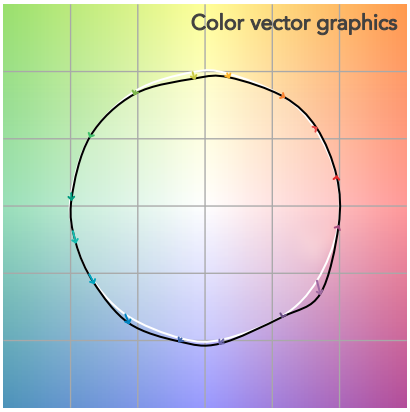
**Rg 100,7**

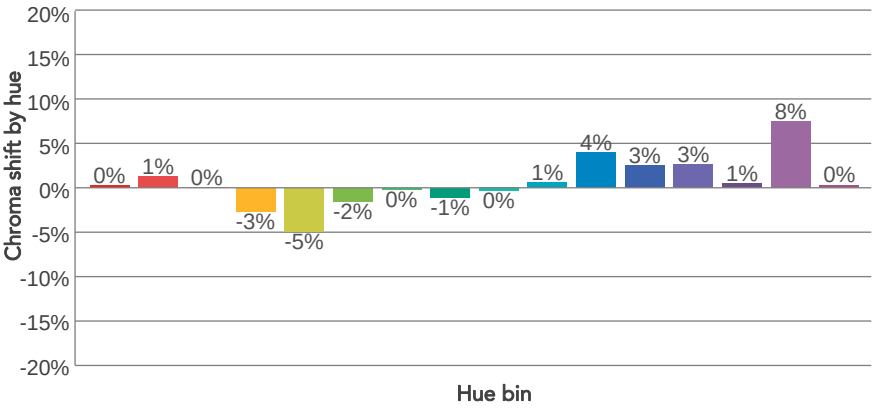
Gammut index

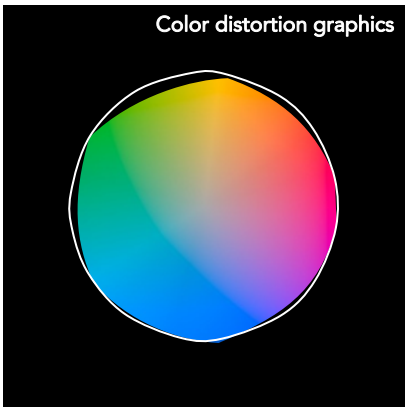
| | | Graphic shifts (%) | |
|---|---|---|---|
| Hue Bin | $R_f$ | Chroma | Hue |
| 1 | 92 | 0% | 1% |
| 2 | 97 | 1% | 0% |
| 3 | 95 | 0% | -2% |
| 4 | 93 | -3% | -2% |
| 5 | 89 | -5% | 0% |
| 6 | 94 | -2% | 2% |
| 7 | 97 | 0% | 1% |
| 8 | 91 | -1% | 5% |
| 9 | 89 | 0% | 9% |
| 10 | 87 | 1% | 7% |
| 11 | 87 | 4% | 6% |
| 12 | 95 | 3% | -1% |
| 13 | 92 | 3% | -3% |
| 14 | 94 | 1% | -1% |
| 15 | 85 | 8% | -7% |
| 16 | 96 | 0% | 1% |

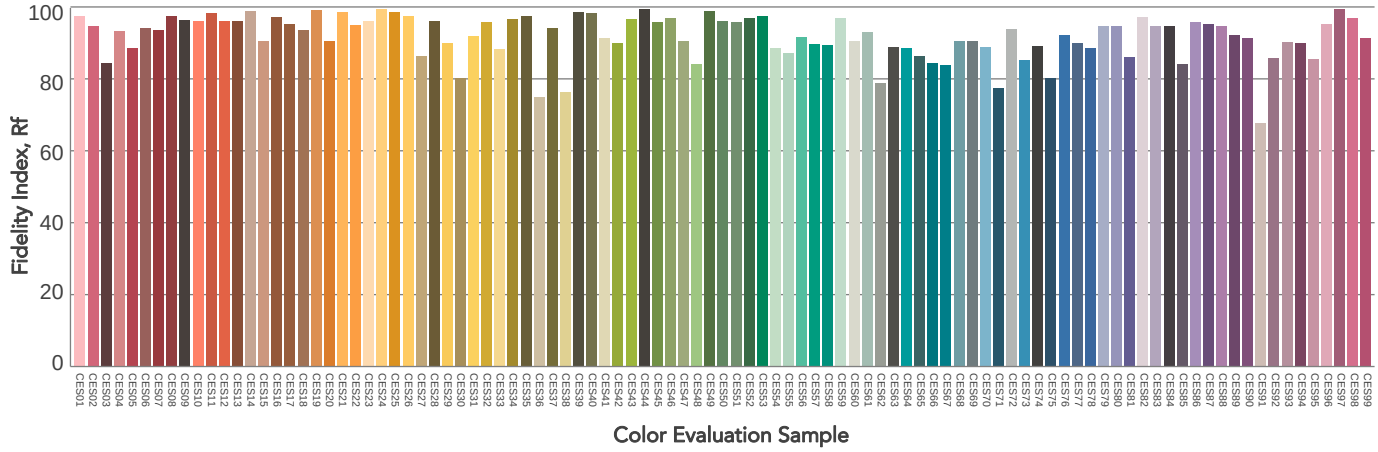




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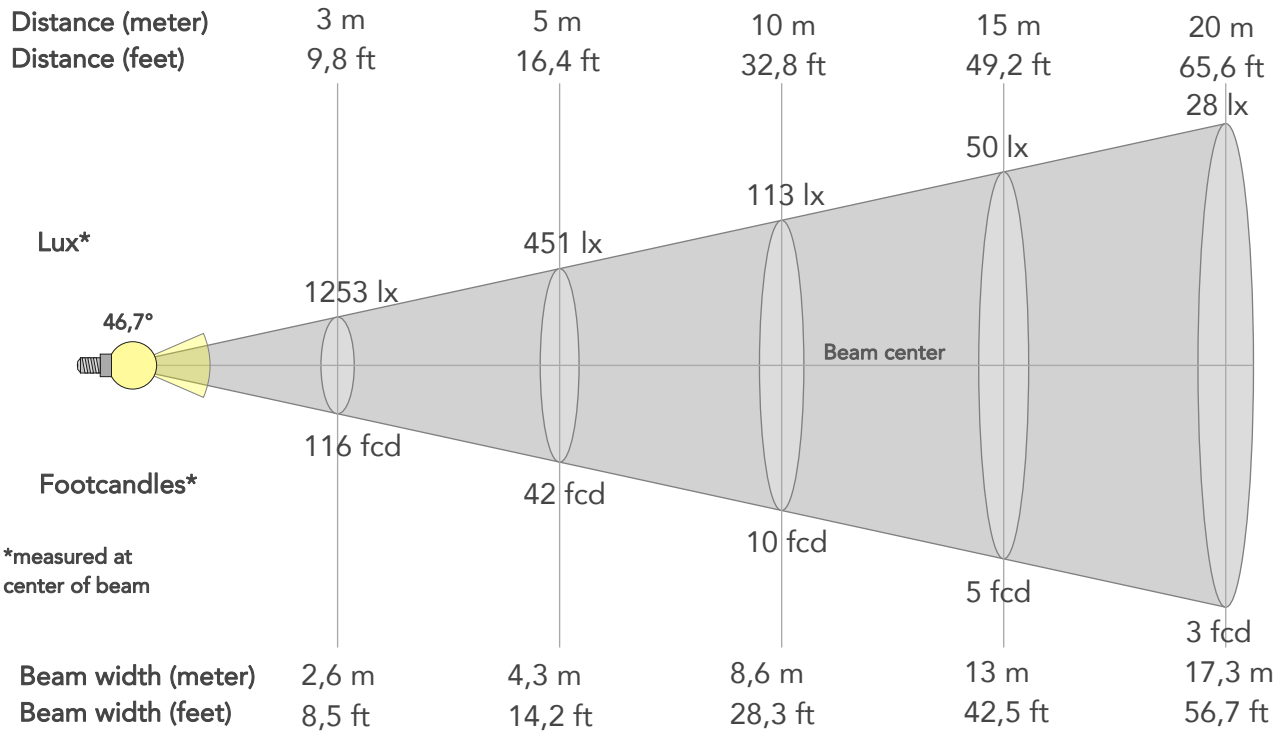
# BEAM DETAILS

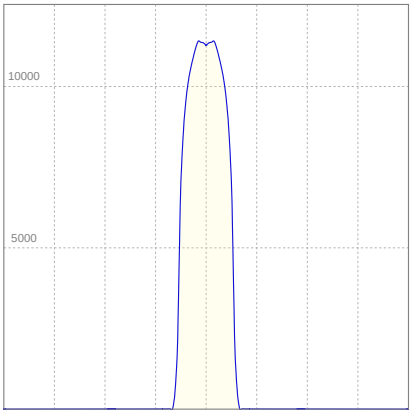
| Beam angle 50% | Field angle 10% | Cut off angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|---|---|---|---|---|
| 46,7° | 53,6° | 57,6° | 99,5% | 99,4% |




## BEAM INTENSITIES AND WIDTHS

| Distance | 1m | 2m | 3m | 4m | 5m | 7,5m | 10m | 15m | 20m | 25m | 30m | 40m | 50m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distance | 3,3ft | 6,6ft | 9,8ft | 13,1ft | 16,4ft | 24,6ft | 32,8ft | 49,2ft | 65,6ft | 82ft | 98,4ft | 131,2ft | 164ft |
| Lux | 11281lx | 2820lx | 1253lx | 705lx | 451lx | 201lx | 113lx | 50lx | 28lx | 18lx | 13lx | 7lx | 5lx |
| Footcand. | 1048fcd | 262fcd | 116fcd | 66fcd | 42fcd | 19fcd | 10fcd | 5fcd | 3fcd | 2fcd | 1fcd | 1fcd | 0fcd |
| Beam wid. | 0,9m | 1,7m | 2,6m | 3,5m | 4,3m | 6,5m | 8,6m | 13m | 17,3m | 21,6m | 25,9m | 34,6m | 43,2m |
| Beam wid. | 2,9ft | 5,7ft | 8,5ft | 11,3ft | 14,2ft | 21,3ft | 28,3ft | 42,5ft | 56,7ft | 70,9ft | 85ft | 113,4ft | 141,7ft |

## LINEAR DISTRIBUTION DIAGRAM




## ELECTRICAL SPECIFICATIONS

| Input voltage | Input current | Input power | Effeciency |
|---|---|---|---|
| 226V | 1,07A | 230,1W | 24lm/W |



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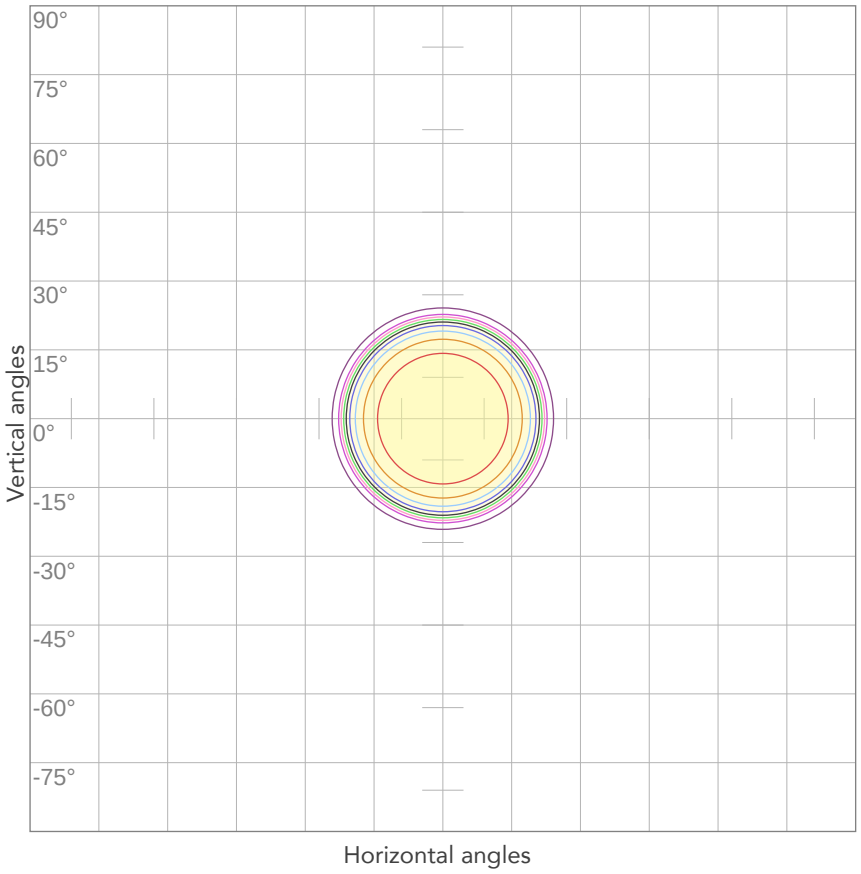
# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



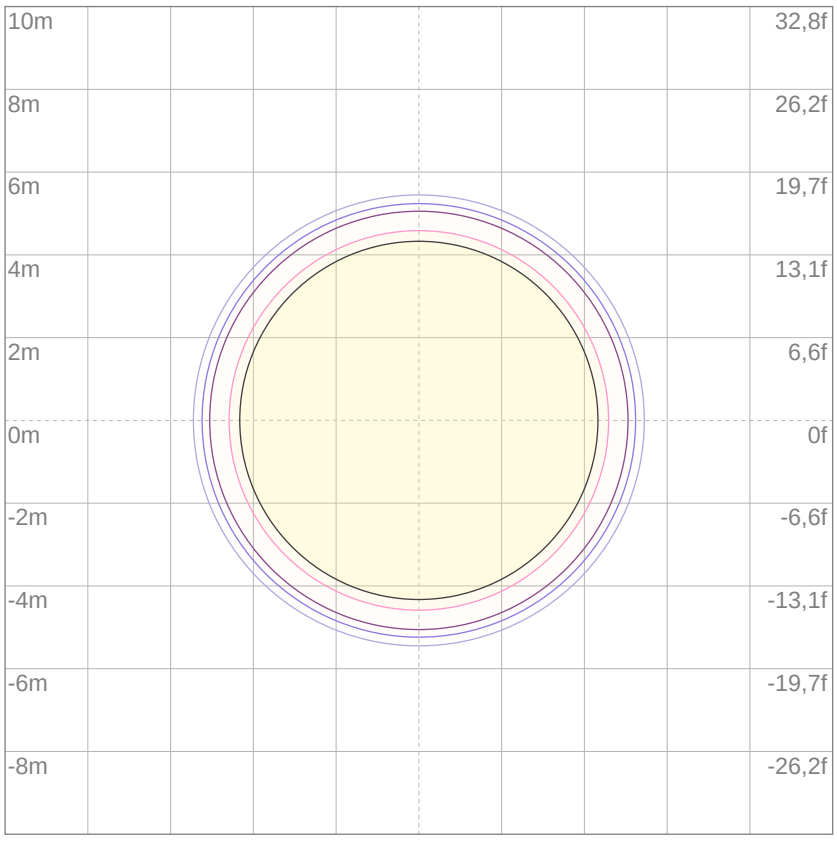

| | |
|---|---|
| 10% | 1128 cd |
| 20% | 2256 cd |
| 30% | 3384 cd |
| 40% | 4512 cd |
| 50% | 5641 cd |
| 60% | 6769 cd |
| 70% | 7897 cd |
| 80% | 9025 cd |

Conditions:

Number of c-planes: 2

Candela at center: 11281 cd

## ISO LUX DIAGRAM




| | |
|---|---|
| 3% | 3,38 lx |
| 5% | 5,64 lx |
| 10% | 11,3 lx |
| 30% | 33,8 lx |
| 50% | 56,4 lx |

Conditions:

Number of c-planes: 2

Lux at center: 113 lx

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



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