

Photometric Test Report



EclDisplay UNFC

ZOOMABLE PROFILE LENS 10-20°

40W RGB+WW LED gallery light, Tunable
White and Full Colour with universal
control (DMX, Dali T8, knob-dimming,
phase-cut dimming)

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TESTING PROCESS

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

Prolights measurement instrument

Prolights measurement instrument is a complete measurement system for any light source. It's equipped with two-axis goniometer, that enables to measure the full 3D distribution field of the light source. This instrument measures the light intensity, the beam angle and the most 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:

349 lm

Peak candela output:

4515 cd

Light quality:

CRI: 92,2

Color temperature:

6185 K

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 1020 Max Zoom

Target:

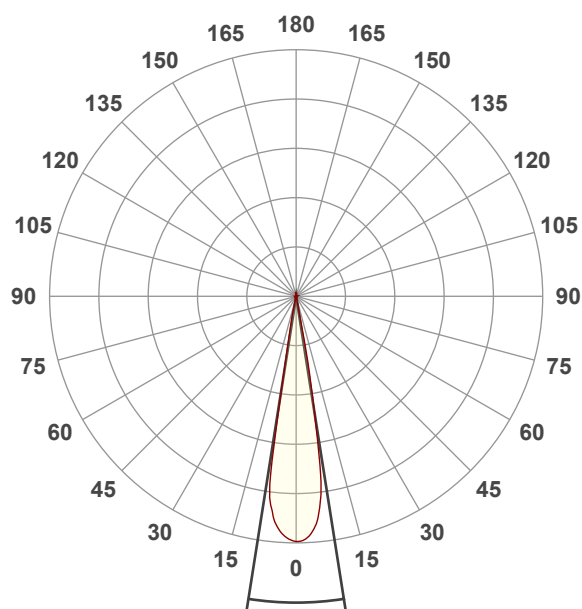
Full On

Operator:

Giacomo Matteo

Date and time:

14/06/2024 11:01:44

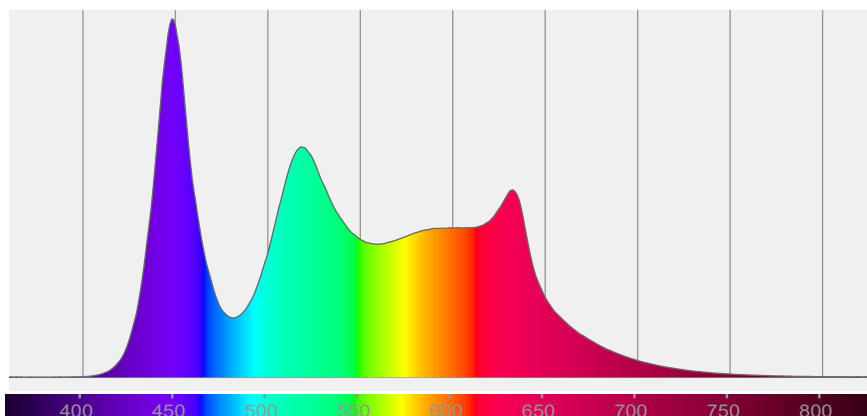


Beam angle 50%: 17,9°

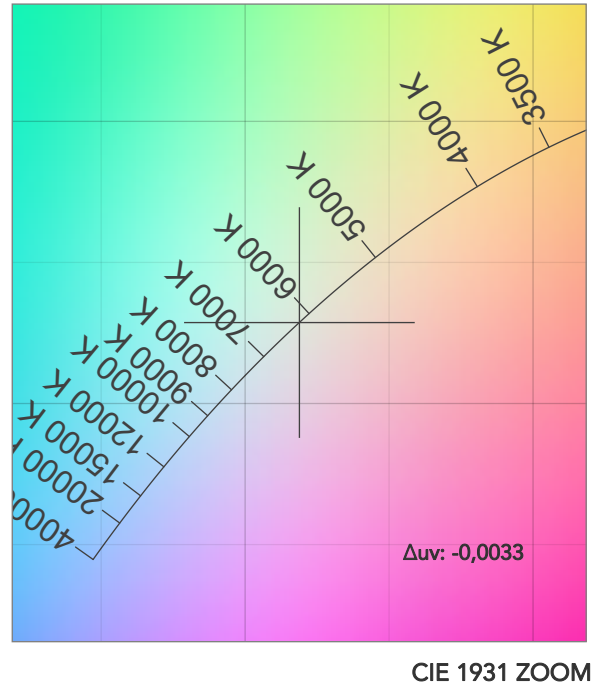
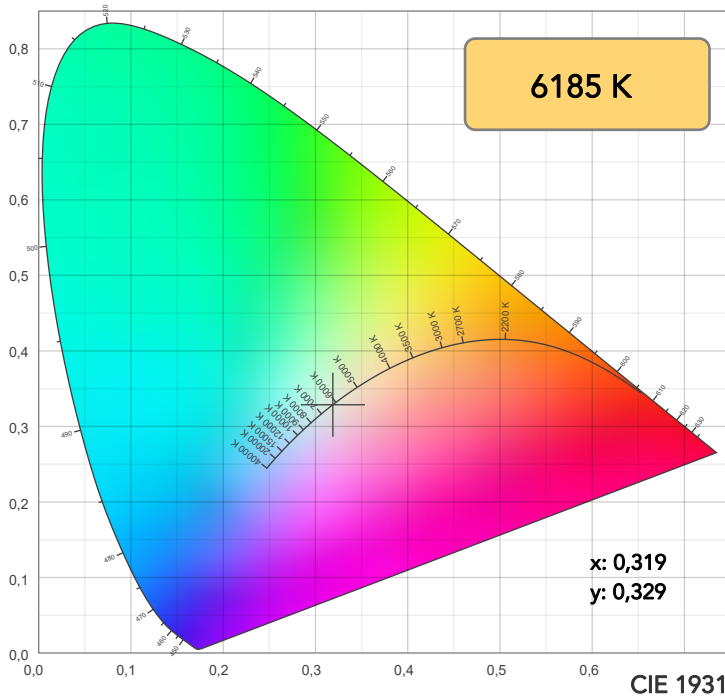
Field angle 10%: 22,1°

Cut off angle 2.5%: 23,7°

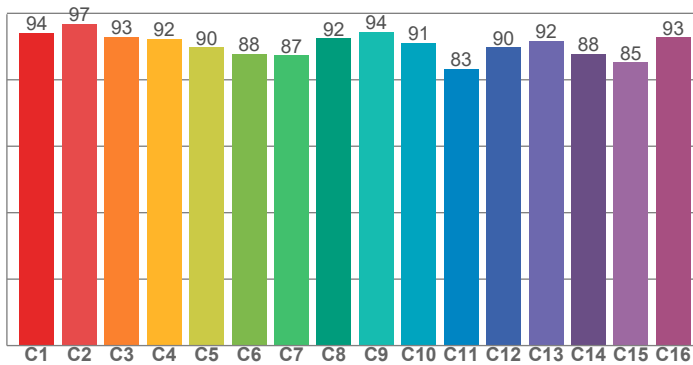
Spectra



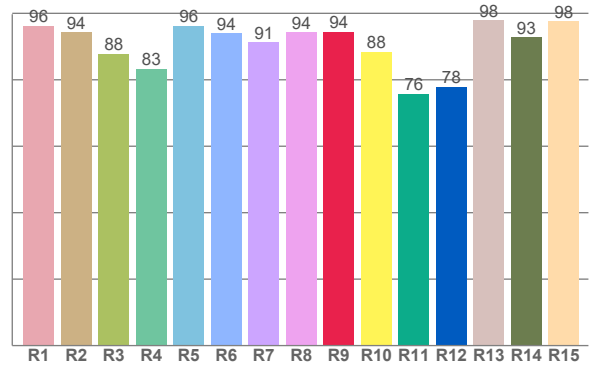
COLOR DETAILS



TM30: 90,6



CRI: 92,2 (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
96,3	94,3	87,9	83,3	96,3	94,0	91,3	94,2	94,5	88,4	75,8	77,9	98,0	92,7	97,6

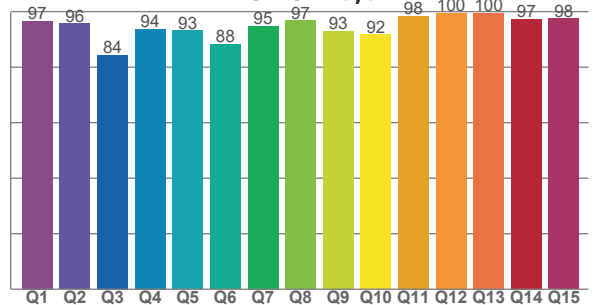
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,1	96,9	92,9	92,3	89,7	87,9	87,3	92,5	94,5	91,1	83,3	89,8	91,6	87,9	85,3	92,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,6	95,7	84,4	93,7	93,2	88,2	94,8	96,8	93,1	91,8	98,4	99,5	99,5	97,4	97,5

CQS: 93,3



COLOR PARAMETERS

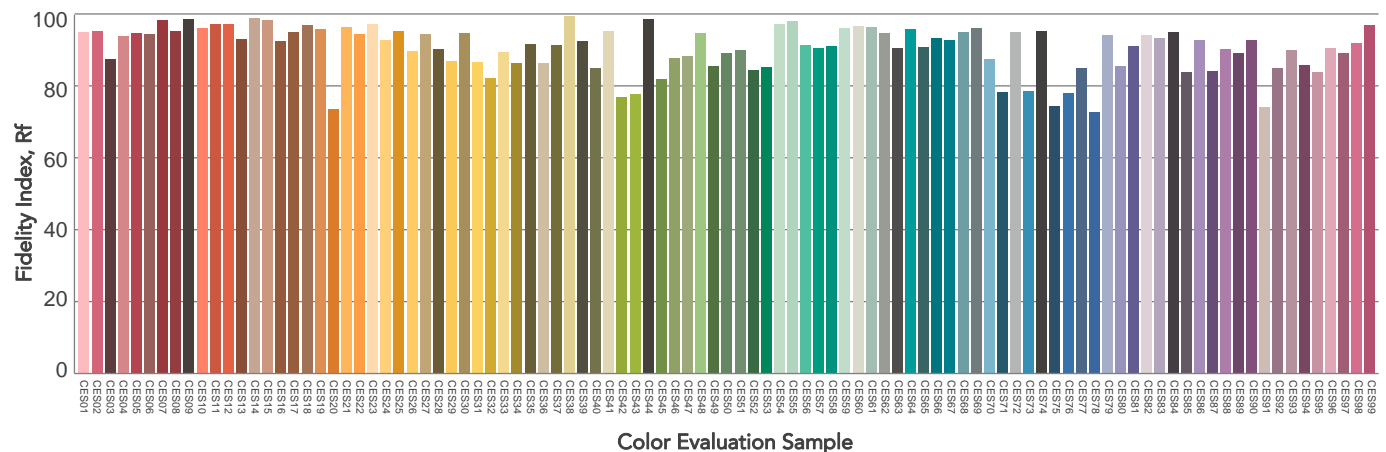
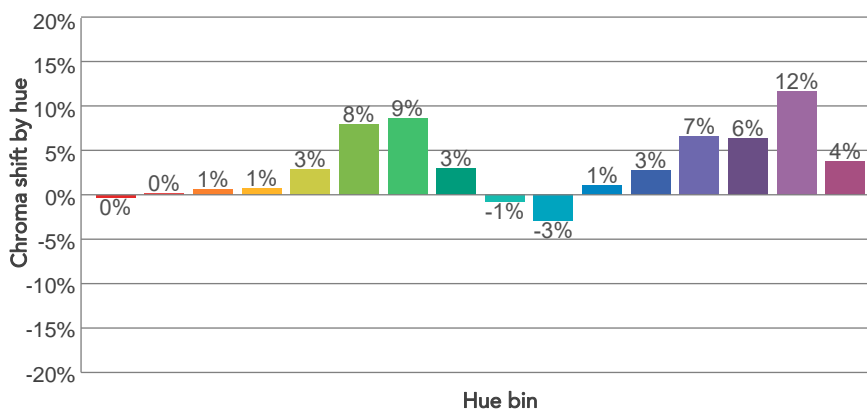
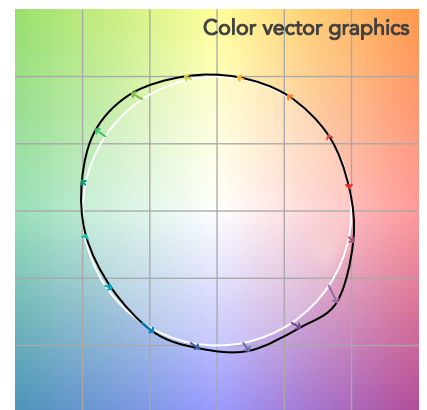
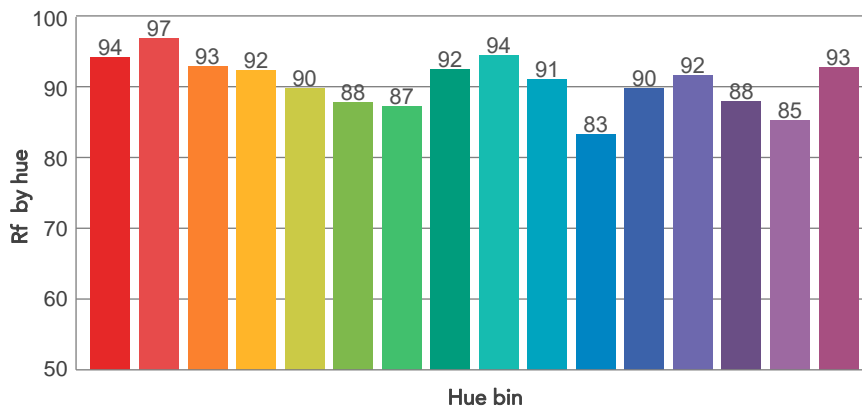
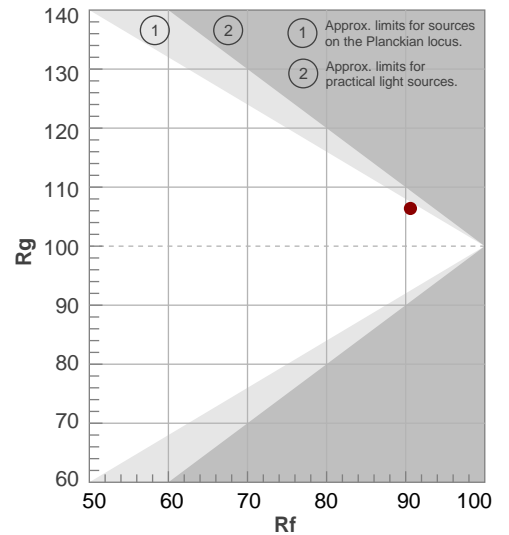
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6185 K	92,2	94,5	90,6	106,4	93,3	87	0,319	0,329	-0,0033

TM30 DETAILS

Rf 90,6
Fidelity index Rf

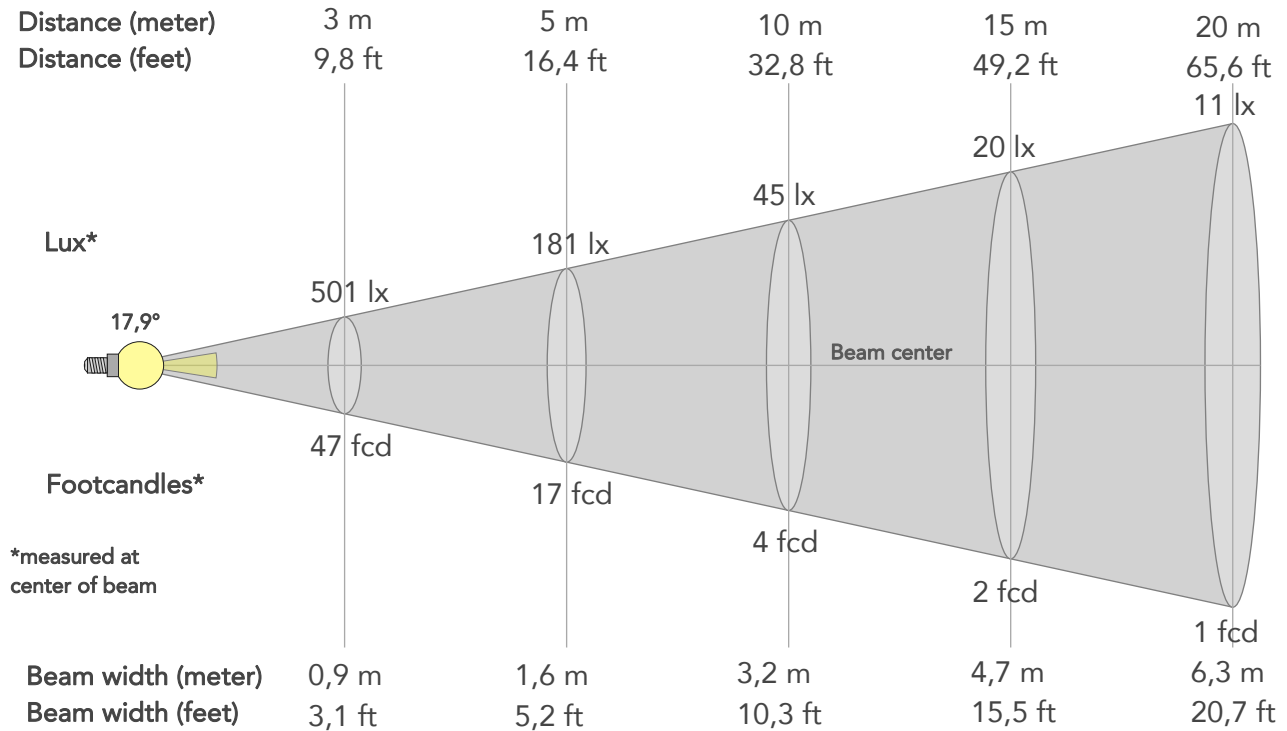
Rg 106,4
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	0%	-2%
2	97	0%	1%
3	93	1%	4%
4	92	1%	4%
5	90	3%	4%
6	88	8%	4%
7	87	9%	0%
8	92	3%	-3%
9	94	-1%	-1%
10	91	-3%	4%
11	83	1%	10%
12	90	3%	6%
13	92	7%	3%
14	88	6%	3%
15	85	12%	-7%
16	93	4%	-3%



BEAM DETAILS

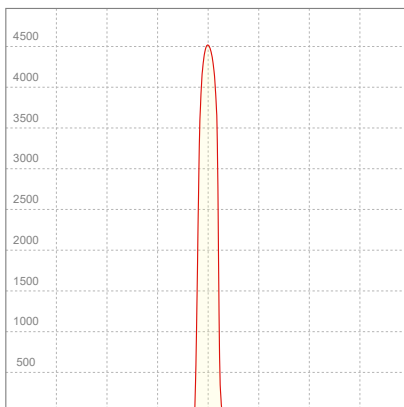
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17,9°	22,1°	23,7°	99,4%	99,1%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	4513lx	1128lx	501lx	282lx	181lx	80lx	45lx	20lx	11lx	7lx	5lx	3lx	2lx
Footcand.	419fcd	105fcd	47fcd	26fcd	17fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,9m	1,3m	1,6m	2,4m	3,2m	4,7m	6,3m	7,9m	9,5m	12,6m	15,8m
Beam wid.	1ft	2,1ft	3,1ft	4,1ft	5,2ft	7,8ft	10,3ft	15,5ft	20,7ft	25,9ft	31ft	41,4ft	51,7ft

LINEAR DISTRIBUTION DIAGRAM

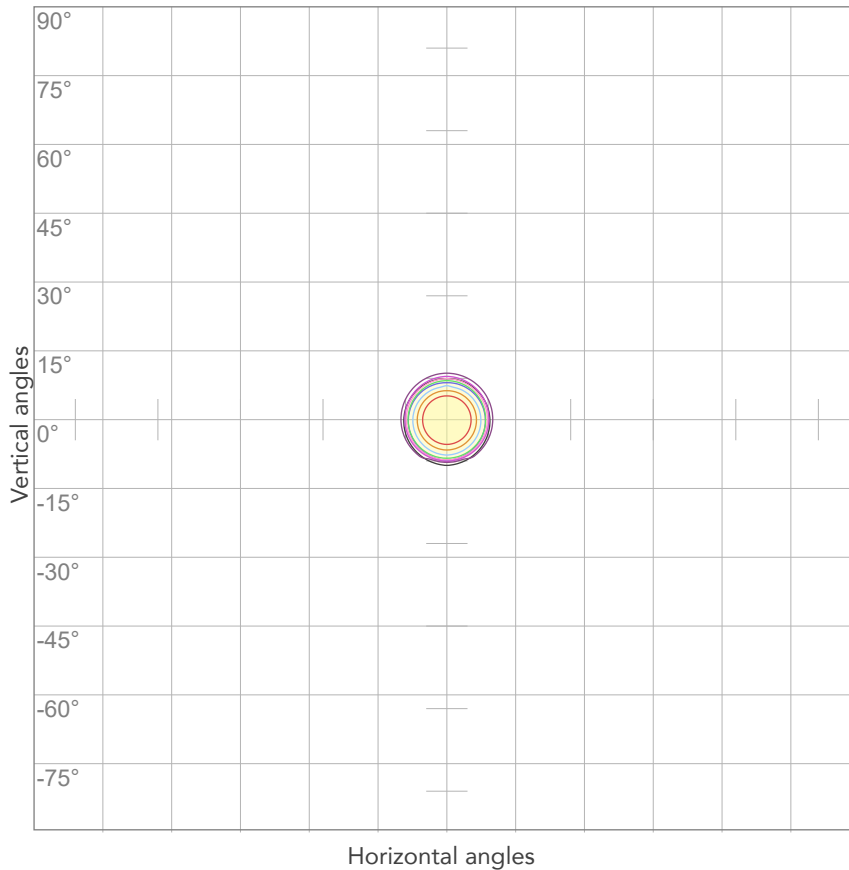


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,133A	28,4W	0,94	12lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



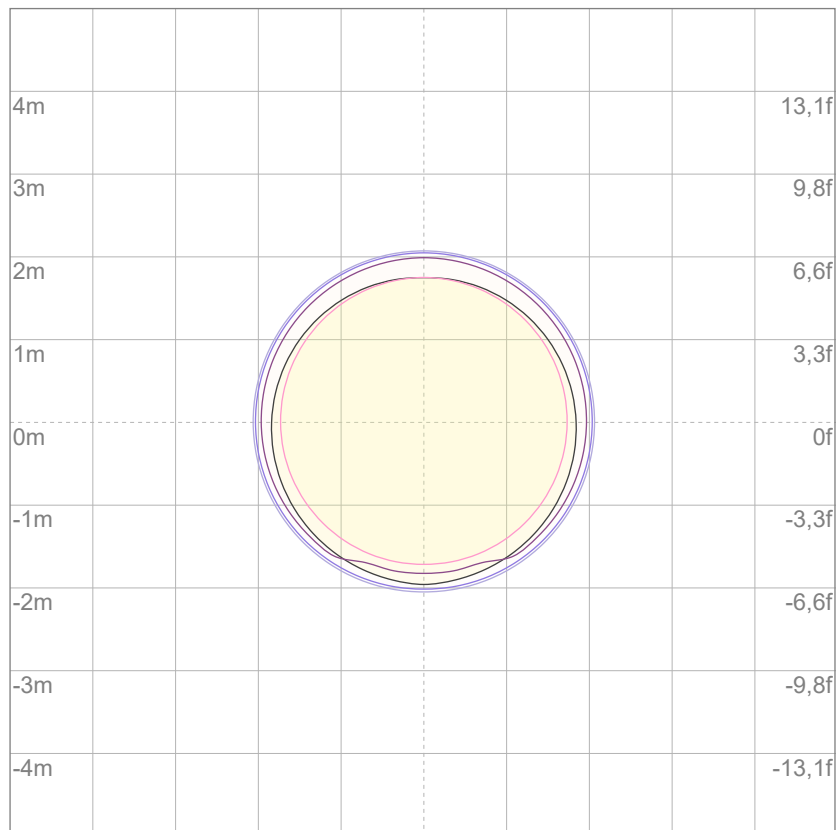
10%	451 cd
20%	903 cd
30%	1354 cd
40%	1805 cd
50%	2257 cd
60%	2708 cd
70%	3159 cd
80%	3611 cd

Conditions:

Number of c-planes: 2

Candela at center: 4513 cd

ISO LUX DIAGRAM



3%	1,35 lx
5%	2,26 lx
10%	4,51 lx
30%	13,5 lx
50%	22,6 lx

Conditions:

Number of c-planes: 2

Lux at center: 45,1 lx

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



Total lumen output:

359 lm

Peak candela output:

15864 cd

Light quality:

CRI: 92,2

Color temperature:

6179 K

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 1020 Min Zoom

Target:

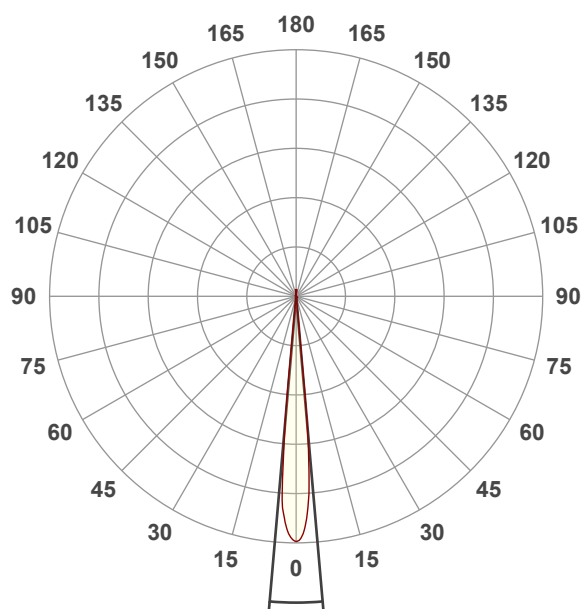
Full On

Operator:

Giacomo Matteo

Date and time:

14/06/2024 10:53:19

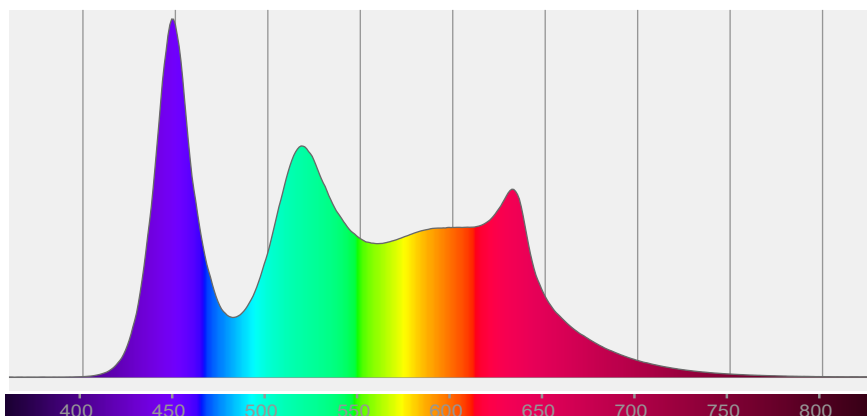


Beam angle 50%: 9,9°

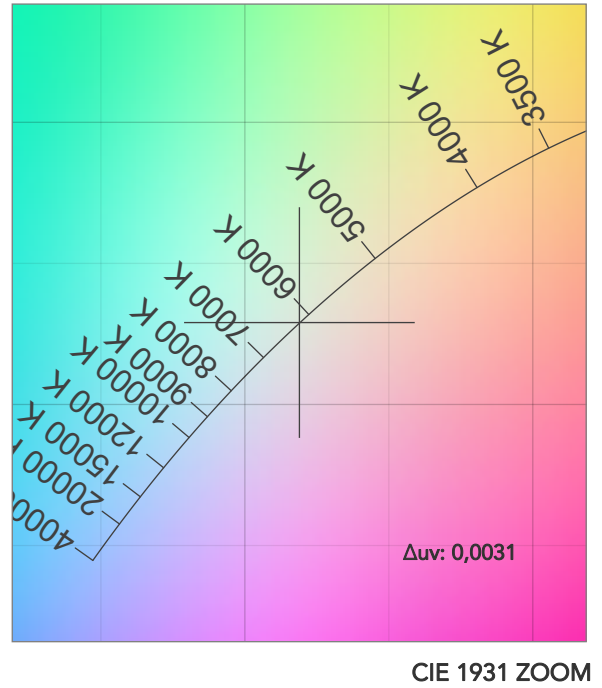
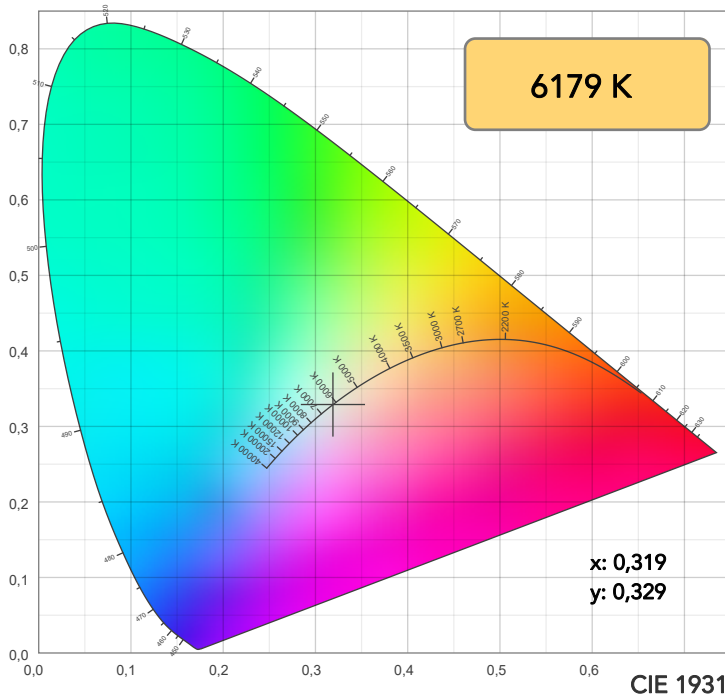
Field angle 10%: 11,6°

Cut off angle 2.5%: 11,9°

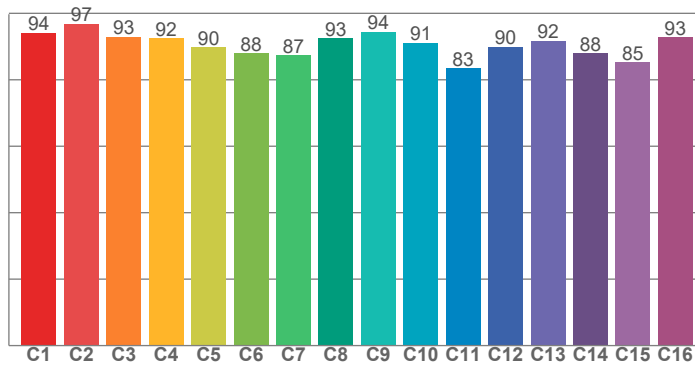
Spectra



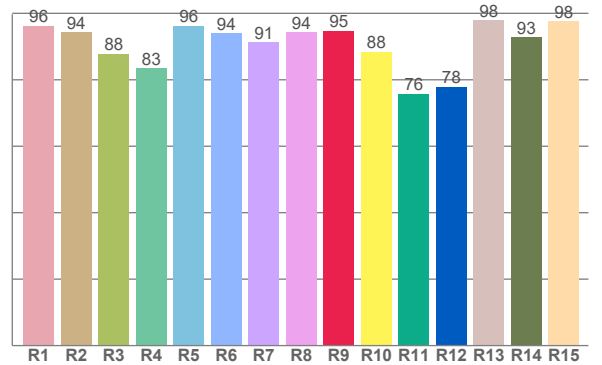
COLOR DETAILS



TM30: 90,7



CRI: 92,2 (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
96,3	94,3	87,8	83,4	96,3	94,0	91,4	94,2	94,8	88,5	75,8	77,9	98,0	92,7	97,7

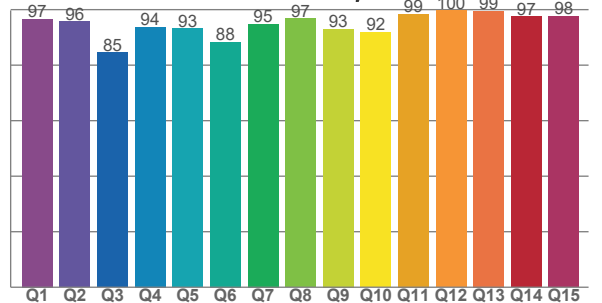
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,2	96,9	93,0	92,4	89,8	87,9	87,3	92,5	94,5	91,1	83,4	89,9	91,7	87,9	85,3	92,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,7	95,7	84,5	93,8	93,2	88,3	94,8	96,8	93,1	91,9	98,5	99,7	99,4	97,5	97,6

CQS: 93,4



COLOR PARAMETERS

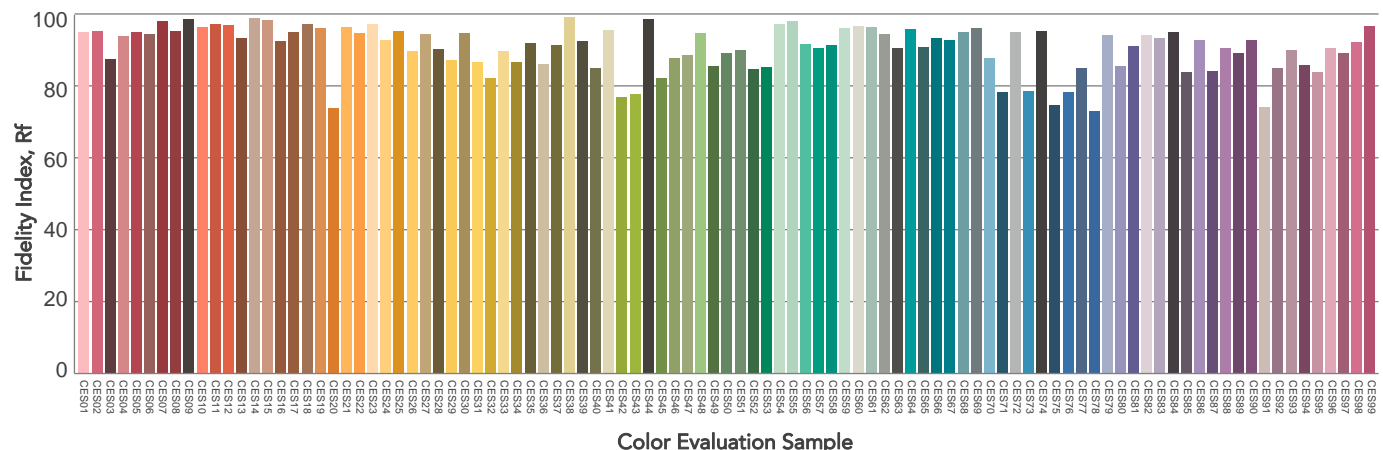
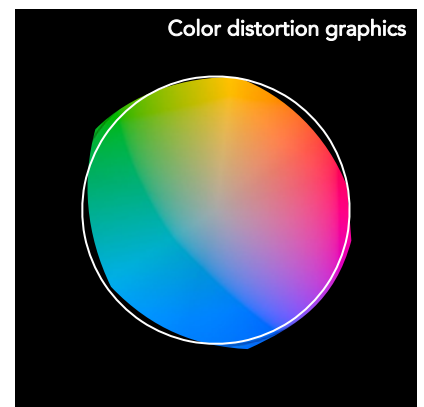
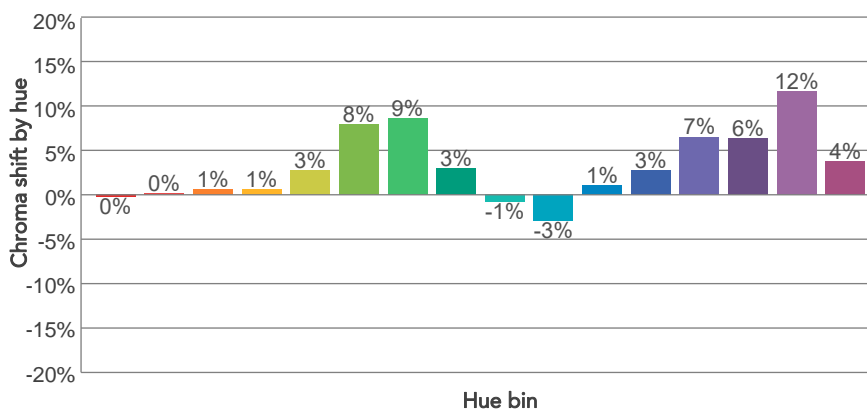
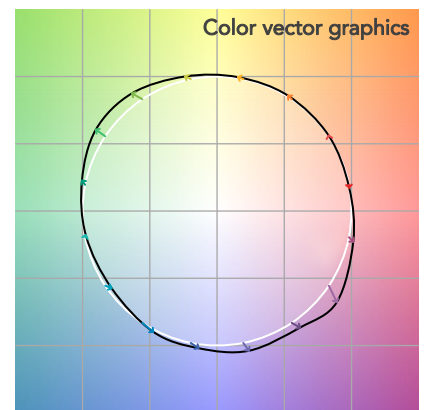
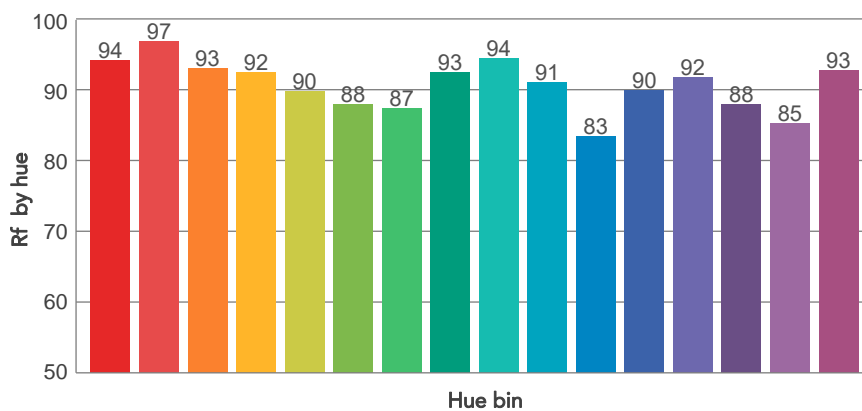
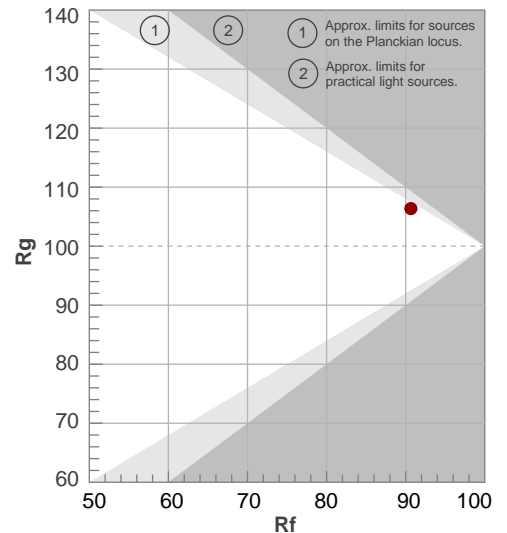
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6179 K	92,2	94,8	90,7	106,4	93,4	87	0,319	0,329	0,0031

TM30 DETAILS

Rf 90,7
Fidelity index Rf

Rg 106,4
Gammut index

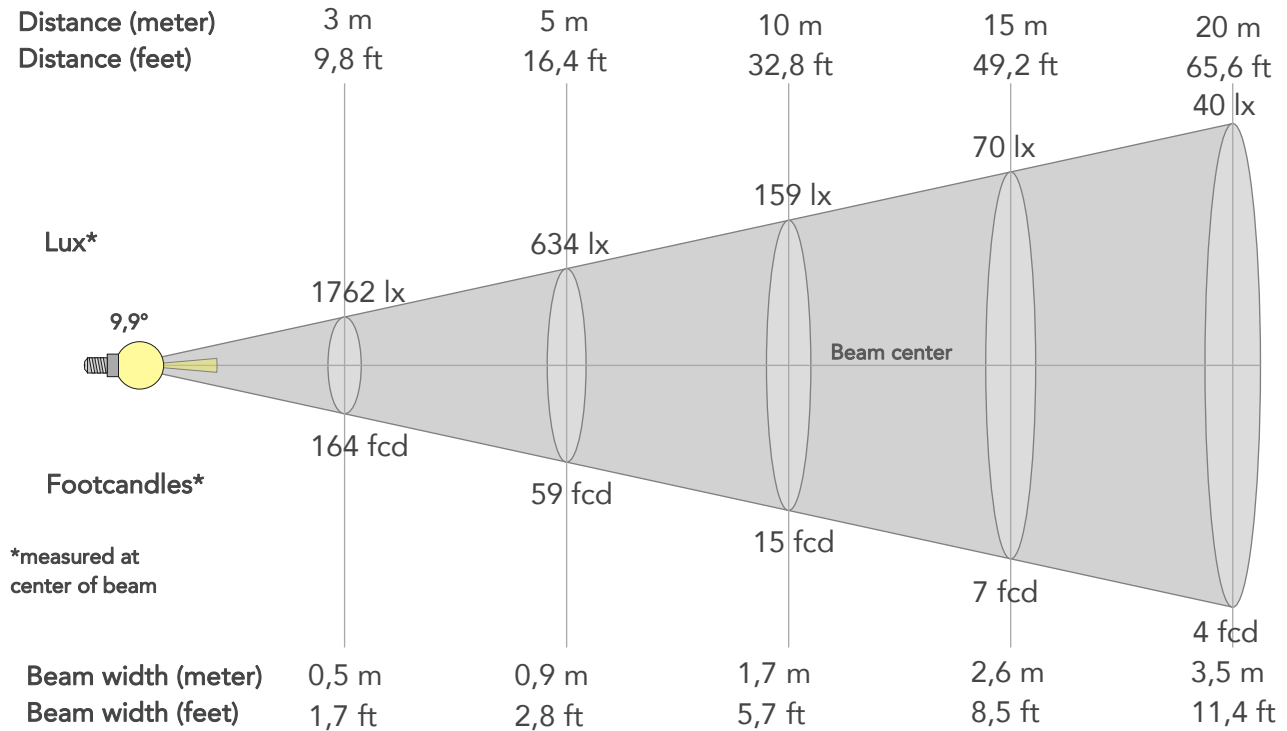
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	0%	-2%
2	97	0%	0%
3	93	1%	4%
4	92	1%	4%
5	90	3%	4%
6	88	8%	4%
7	87	9%	0%
8	93	3%	-3%
9	94	-1%	-1%
10	91	-3%	4%
11	83	1%	10%
12	90	3%	6%
13	92	7%	3%
14	88	6%	3%
15	85	12%	-7%
16	93	4%	-3%



BEAM DETAILS



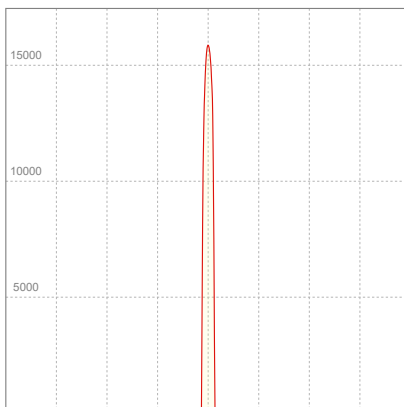
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
9,9°	11,6°	11,9°	99,1%	98,7%



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	15858lx	3965lx	1762lx	991lx	634lx	282lx	159lx	70lx	40lx	25lx	18lx	10lx	6lx
Footcand.	1473fcd	368fcd	164fcd	92fcd	59fcd	26fcd	15fcd	7fcd	4fcd	2fcd	2fcd	1fcd	1fcd
Beam wid.	0,2m	0,3m	0,5m	0,7m	0,9m	1,3m	1,7m	2,6m	3,5m	4,3m	5,2m	6,9m	8,7m
Beam wid.	0,6ft	1,1ft	1,7ft	2,3ft	2,8ft	4,3ft	5,7ft	8,5ft	11,4ft	14,2ft	17,1ft	22,8ft	28,5ft

LINEAR DISTRIBUTION DIAGRAM

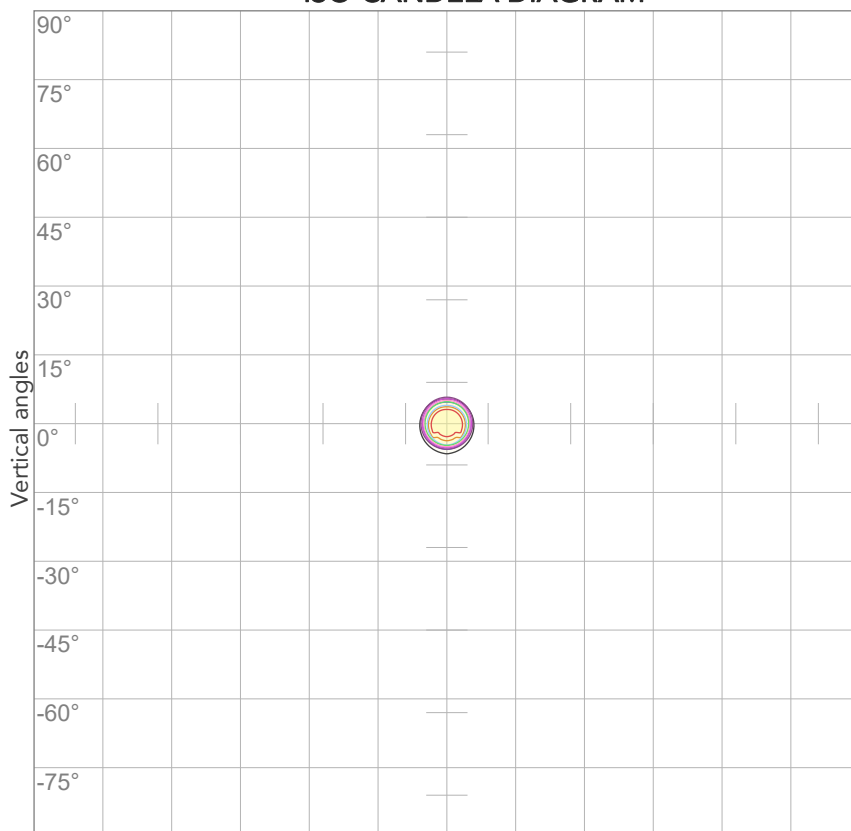


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,133A	28,2W	0,94	13lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



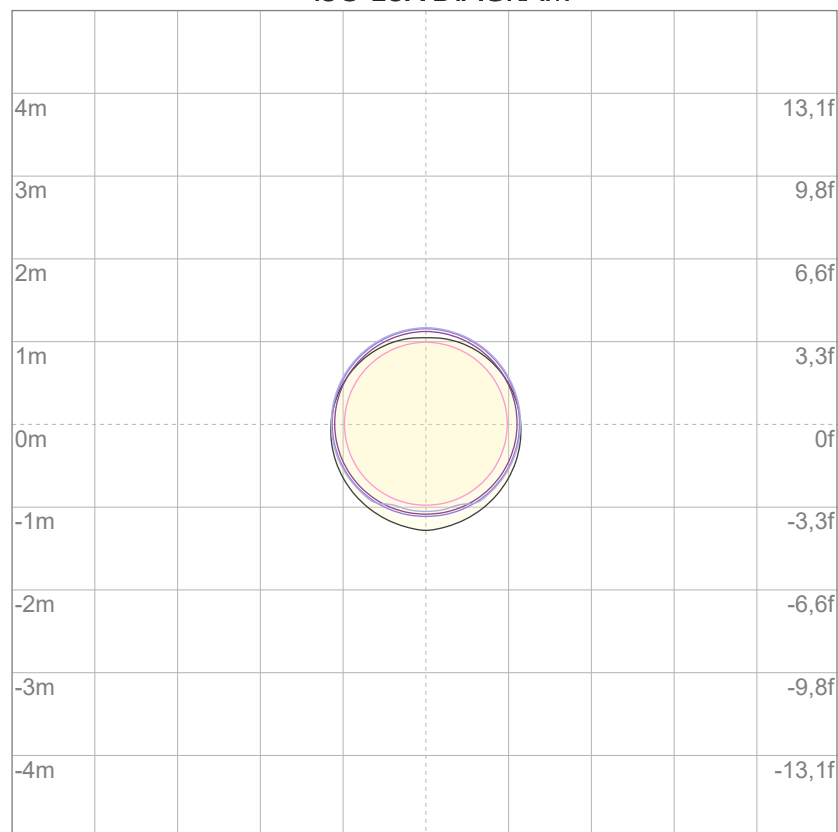
10%	1586 cd
20%	3172 cd
30%	4757 cd
40%	6343 cd
50%	7929 cd
60%	9515 cd
70%	11101 cd
80%	12687 cd

Conditions:

Number of c-planes: 2

Candela at center: 15858 cd

ISO LUX DIAGRAM



3%	4,76 lx
5%	7,93 lx
10%	15,9 lx
30%	47,6 lx
50%	79,3 lx

Conditions:

Number of c-planes: 2

Lux at center: 159 lx

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



Total lumen output:

97,6 lm

Peak candela output:

1247 cd

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 1020 Max Zoom

Target:

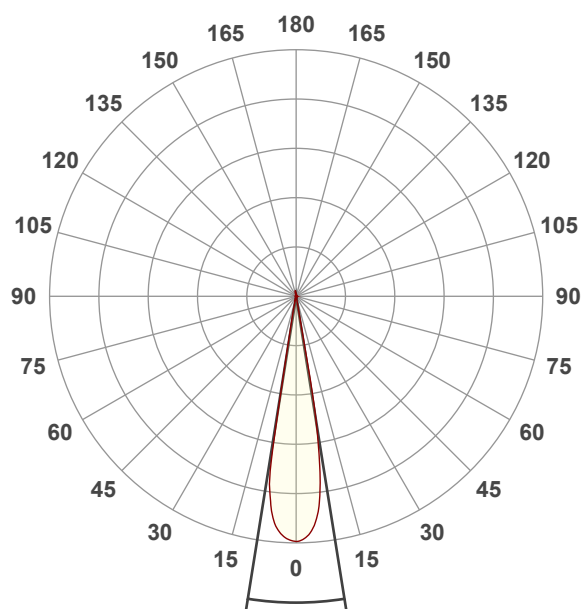
Red

Operator:

Giacomo Matteo

Date and time:

14/06/2024 11:03:08

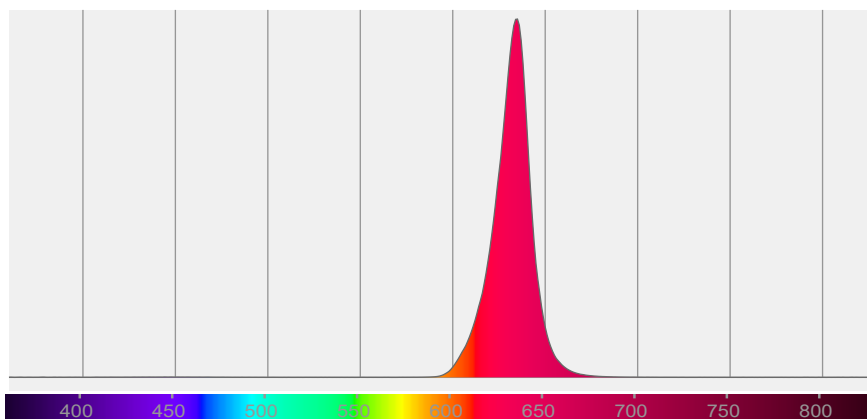


Beam angle 50%: 18,2°

Field angle 10%: 21°

Cut off angle 2.5%: 22,3°

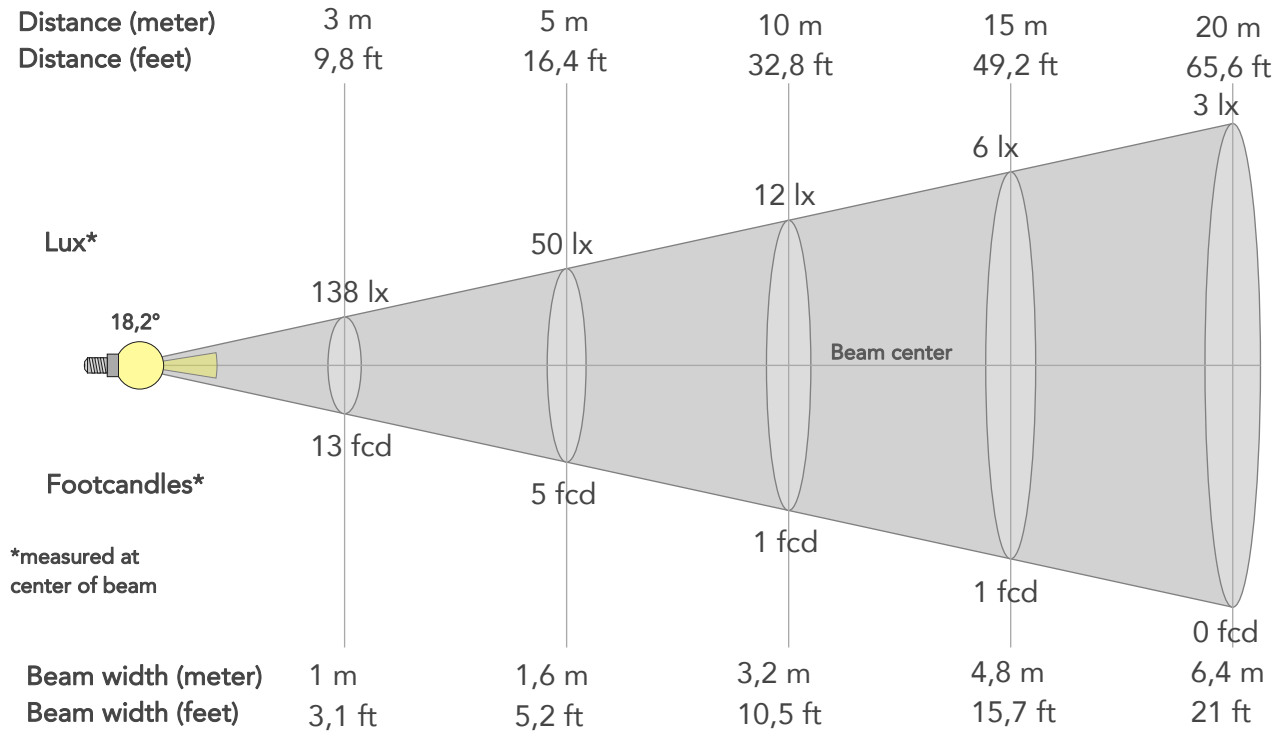
Spectra



BEAM DETAILS



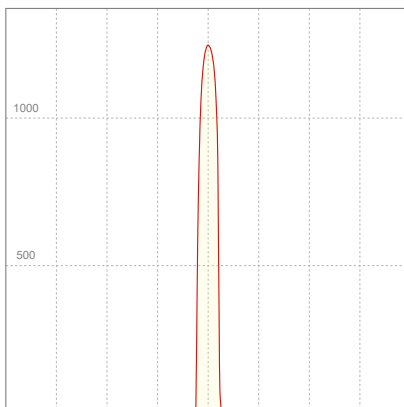
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18,2°	21°	22,3°	97,8%	96,9%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	1246lx	311lx	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.	0,3m	0,6m	1m	1,3m	1,6m	2,4m	3,2m	4,8m	6,4m	8m	9,6m	12,8m	16m
Beam wid.	1,1ft	2,1ft	3,1ft	4,2ft	5,2ft	7,9ft	10,5ft	15,7ft	21ft	26,2ft	31,4ft	41,9ft	52,4ft

LINEAR DISTRIBUTION DIAGRAM

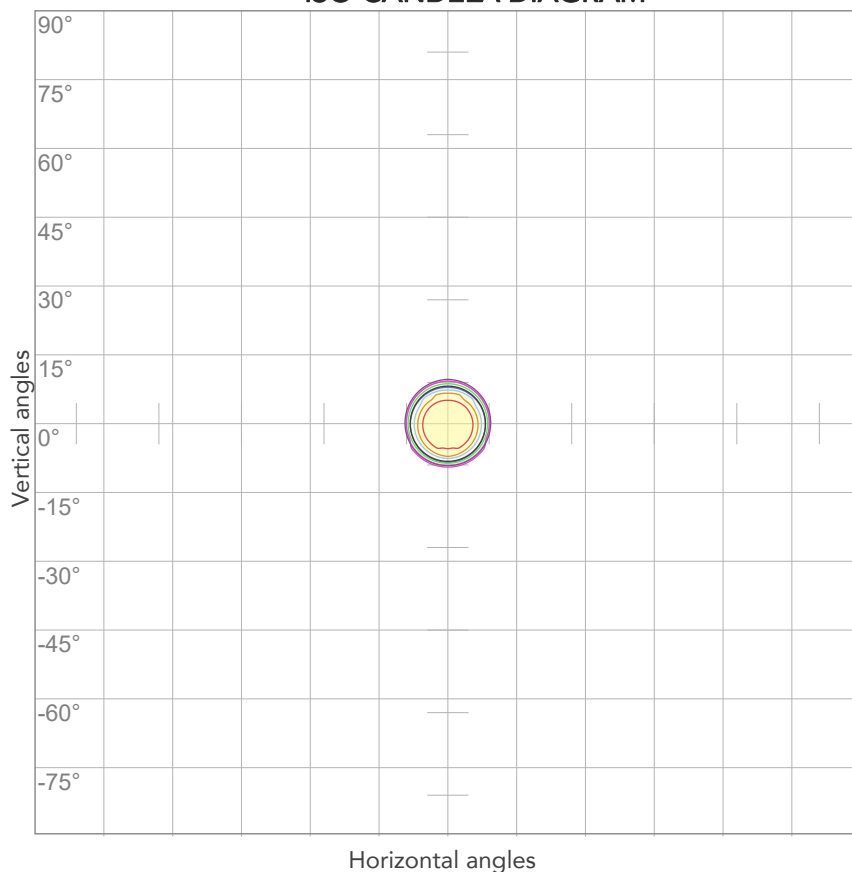


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,071A	12,1W	0,75	8lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



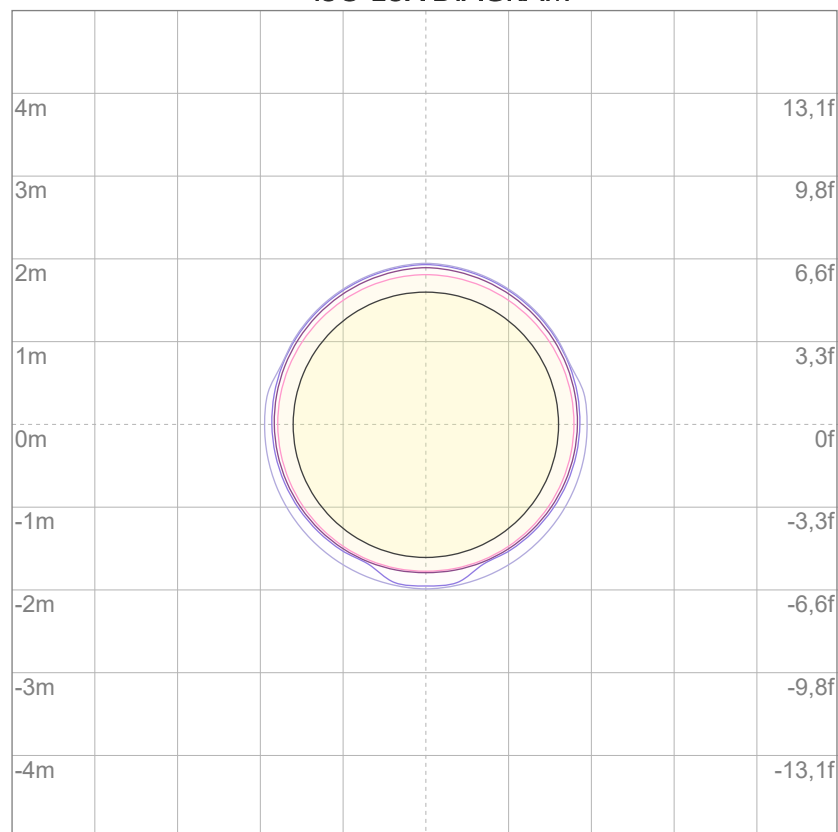
10%	125 cd
20%	249 cd
30%	374 cd
40%	498 cd
50%	623 cd
60%	747 cd
70%	872 cd
80%	997 cd

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:

98,4 lm

Peak candela output:

4298 cd

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 1020 Min Zoom

Target:

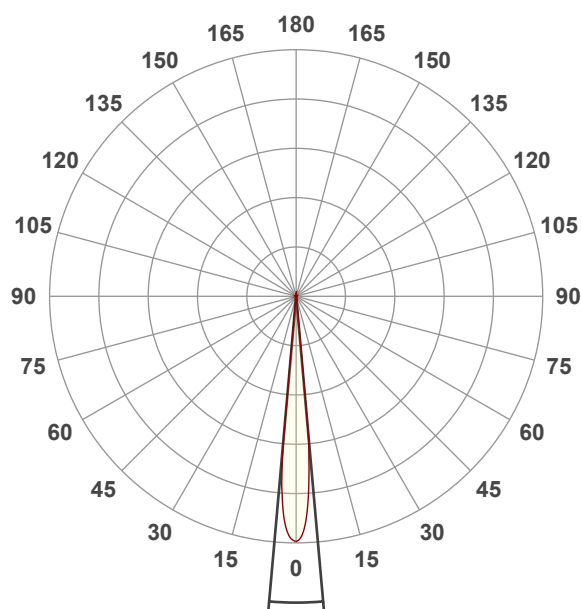
Red

Operator:

Giacomo Matteo

Date and time:

14/06/2024 10:48:04

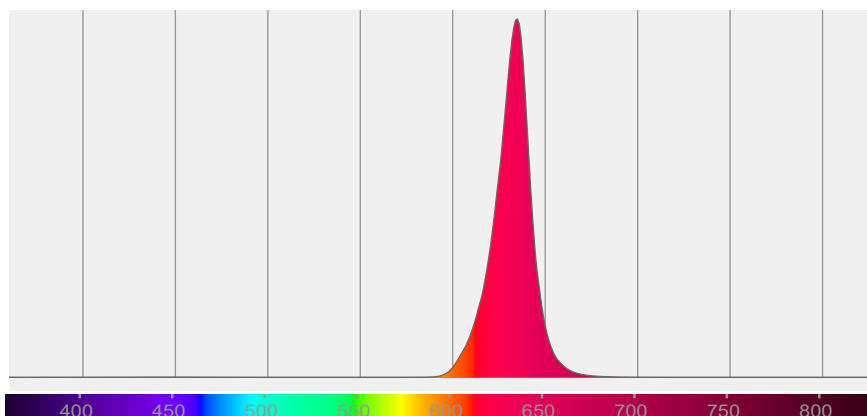


Beam angle 50%: 10,1°

Field angle 10%: 10,9°

Cut off angle 2.5%: 11,6°

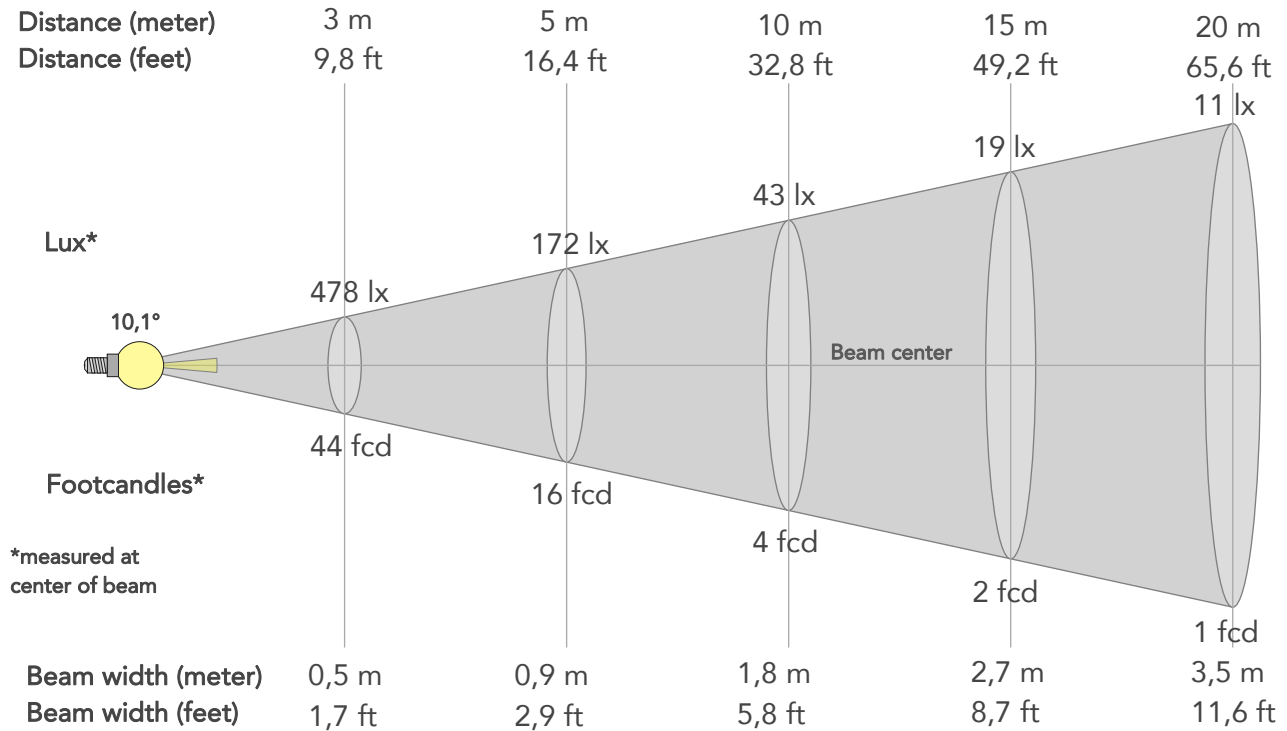
Spectra



BEAM DETAILS



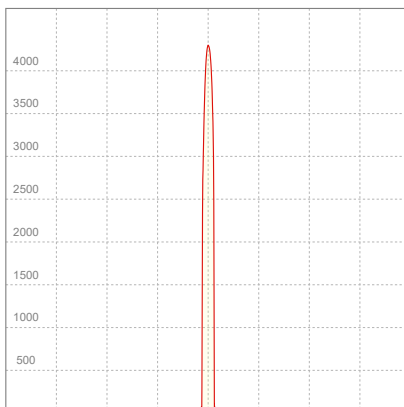
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
10,1°	10,9°	11,6°	97,4%	96,7%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	4298lx	1075lx	478lx	269lx	172lx	76lx	43lx	19lx	11lx	7lx	5lx	3lx	2lx
Footcand.	399fcd	100fcd	44fcd	25fcd	16fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,2m	0,4m	0,5m	0,7m	0,9m	1,3m	1,8m	2,7m	3,5m	4,4m	5,3m	7,1m	8,8m
Beam wid.	0,6ft	1,2ft	1,7ft	2,3ft	2,9ft	4,4ft	5,8ft	8,7ft	11,6ft	14,5ft	17,4ft	23,2ft	29ft

LINEAR DISTRIBUTION DIAGRAM

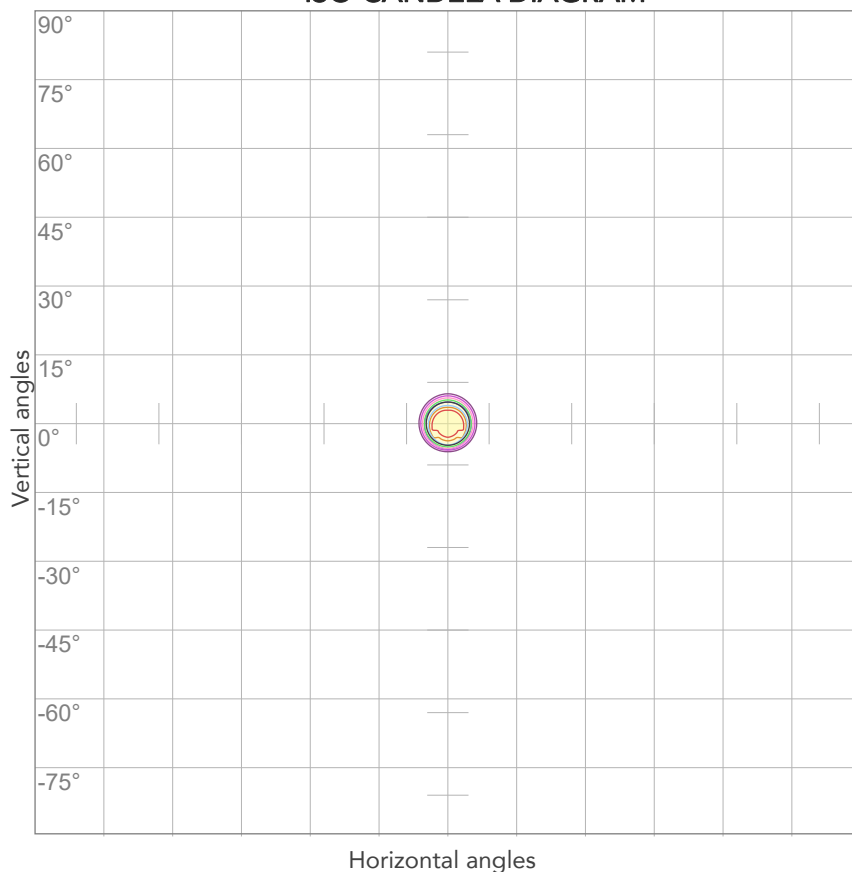


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,071A	12,1W	0,75	8lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



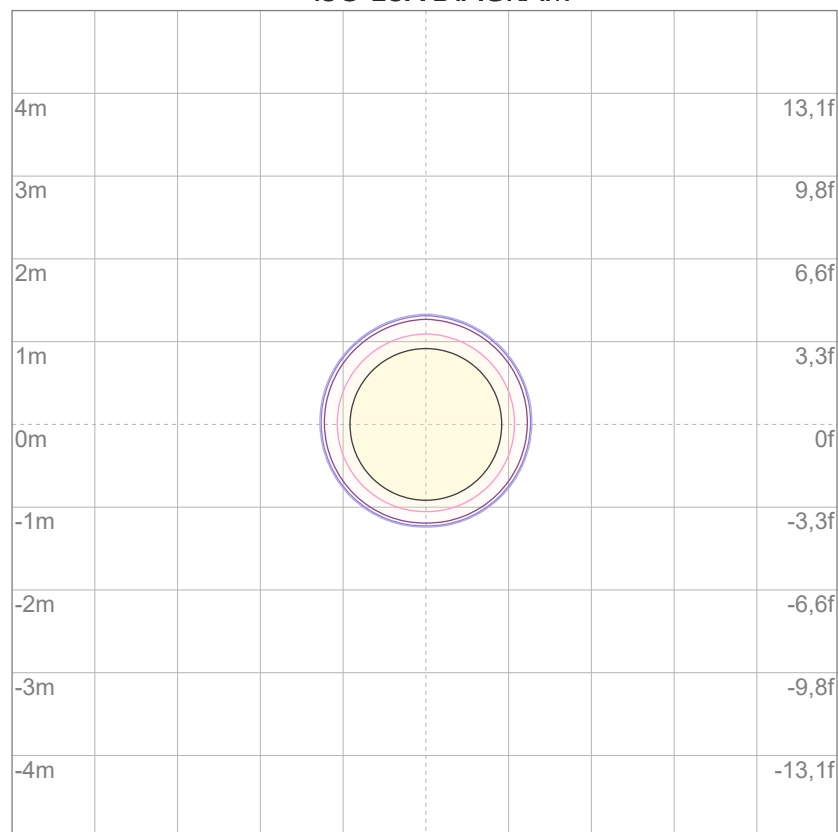
10%	430 cd
20%	860 cd
30%	1289 cd
40%	1719 cd
50%	2149 cd
60%	2579 cd
70%	3009 cd
80%	3439 cd

Conditions:

Number of c-planes: 2

Candela at center: 4298 cd

ISO LUX DIAGRAM



3%	1,29 lx
5%	2,15 lx
10%	4,30 lx
30%	12,9 lx
50%	21,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 43,0 lx

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



Total lumen output:

189 lm

Peak candela output:

2428 cd

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 1020 Max Zoom

Target:

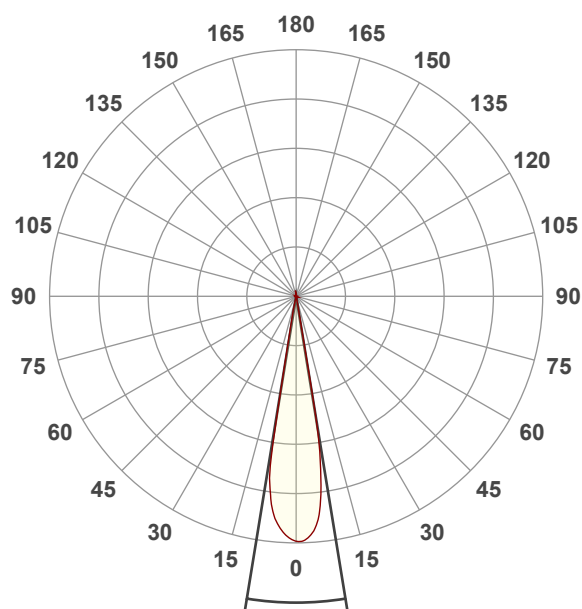
Green

Operator:

Giacomo Matteo

Date and time:

14/06/2024 11:04:48

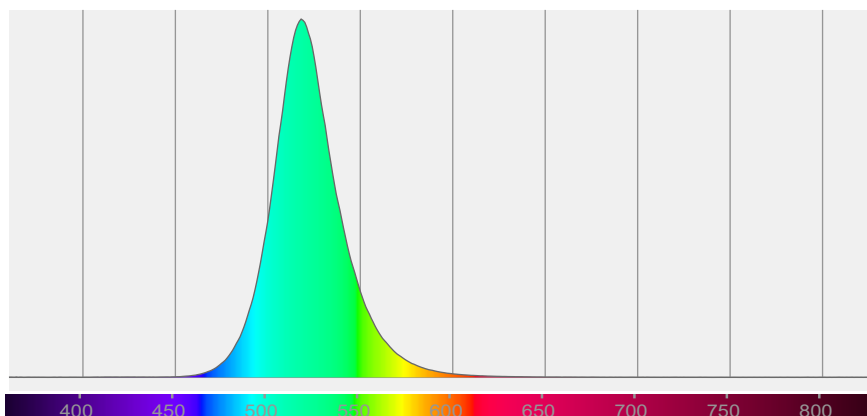


Beam angle 50%: 18,5°

Field angle 10%: 21,1°

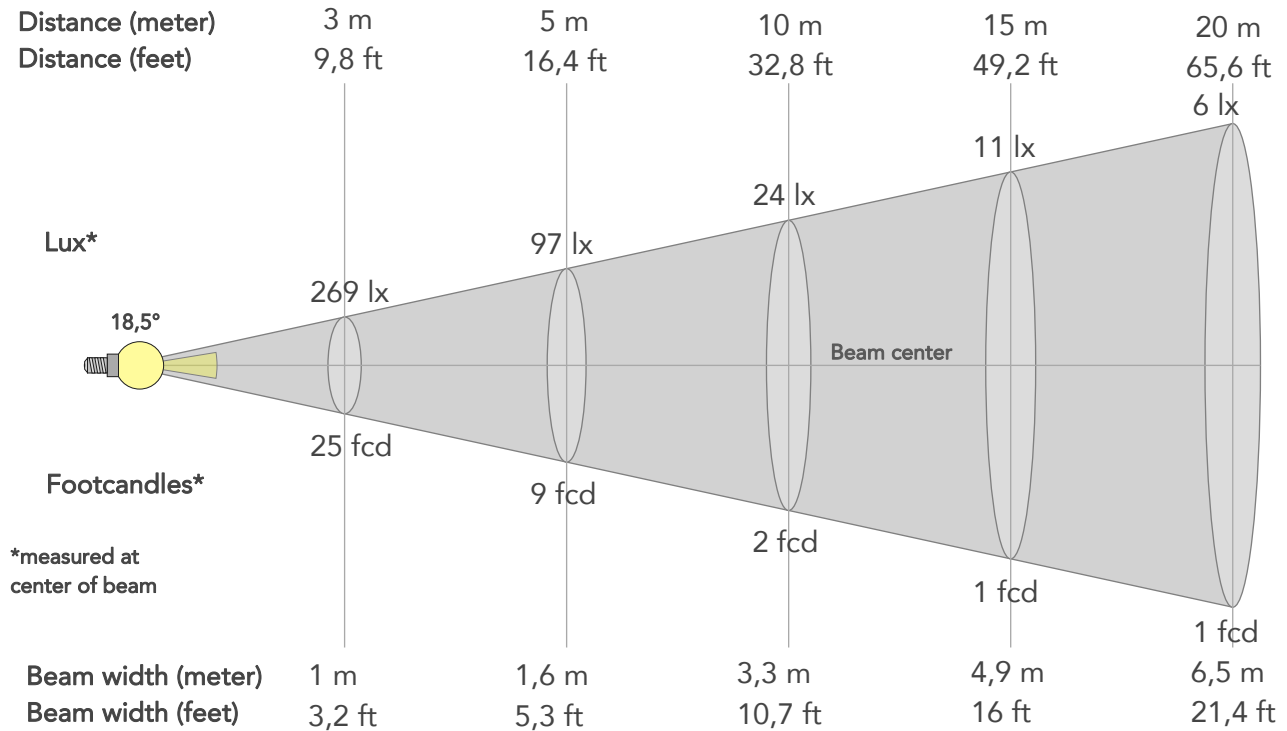
Cut off angle 2.5%: 22,5°

Spectra



BEAM DETAILS

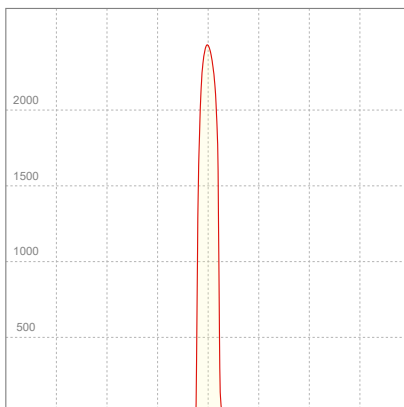
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18,5°	21,1°	22,5°	99,1%	98,7%



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	2425lx	606lx	269lx	152lx	97lx	43lx	24lx	11lx	6lx	4lx	3lx	2lx	1lx
Footcand.	225fcd	56fcd	25fcd	14fcd	9fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,7m	1m	1,3m	1,6m	2,4m	3,3m	4,9m	6,5m	8,2m	9,8m	13m	16,3m
Beam wid.	1,1ft	2,2ft	3,2ft	4,3ft	5,3ft	8ft	10,7ft	16ft	21,4ft	26,7ft	32,1ft	42,8ft	53,5ft

LINEAR DISTRIBUTION DIAGRAM

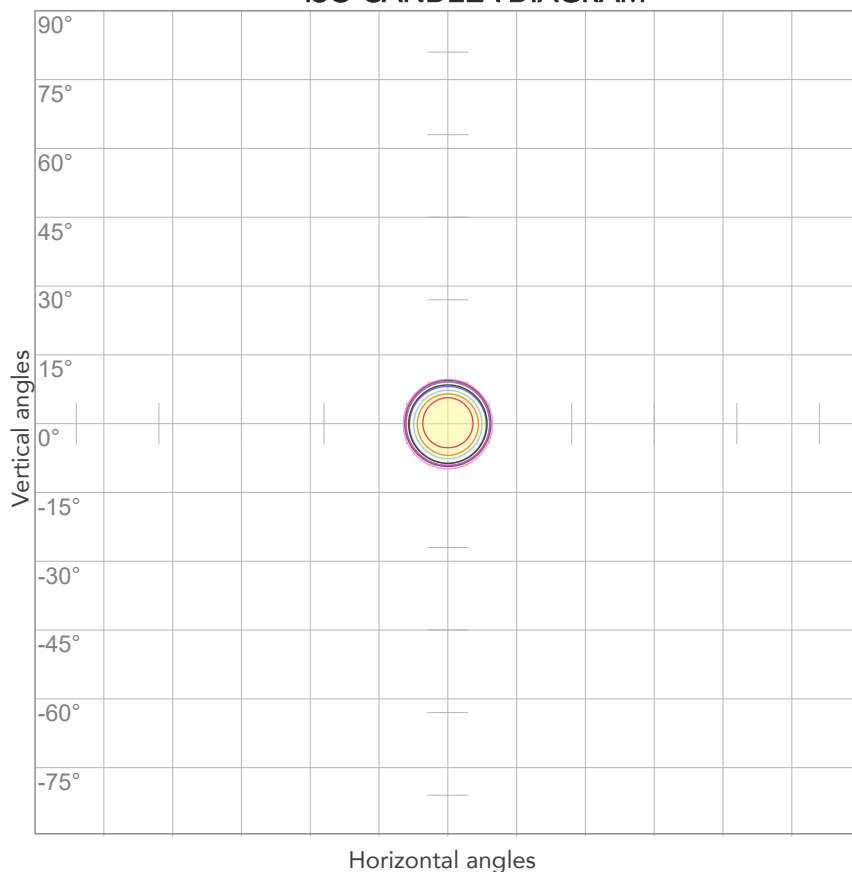


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,088A	17,0W	0,85	11lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



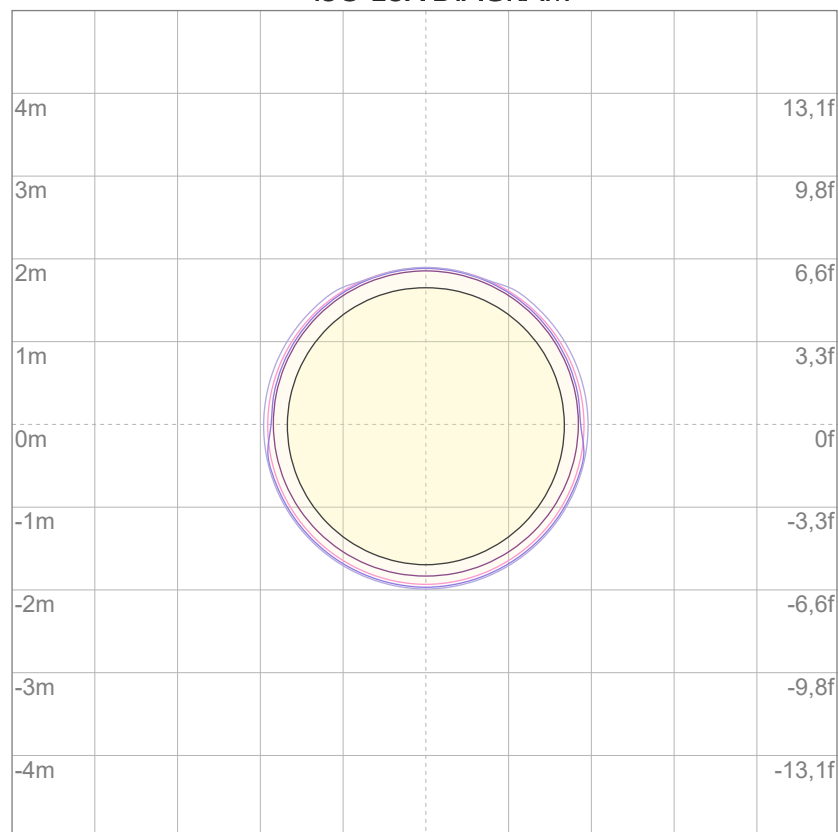
10%	242 cd
20%	485 cd
30%	727 cd
40%	970 cd
50%	1212 cd
60%	1455 cd
70%	1697 cd
80%	1940 cd

Conditions:

Number of c-planes: 2

Candela at center: 2425 cd

ISO LUX DIAGRAM



3%	0,727 lx
5%	1,21 lx
10%	2,42 lx
30%	7,27 lx
50%	12,1 lx

Conditions:

Number of c-planes: 2

Lux at center: 24,2 lx

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



Total lumen output:

196 lm

Peak candela output:

8563 cd

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 1020 Min Zoom

Target:

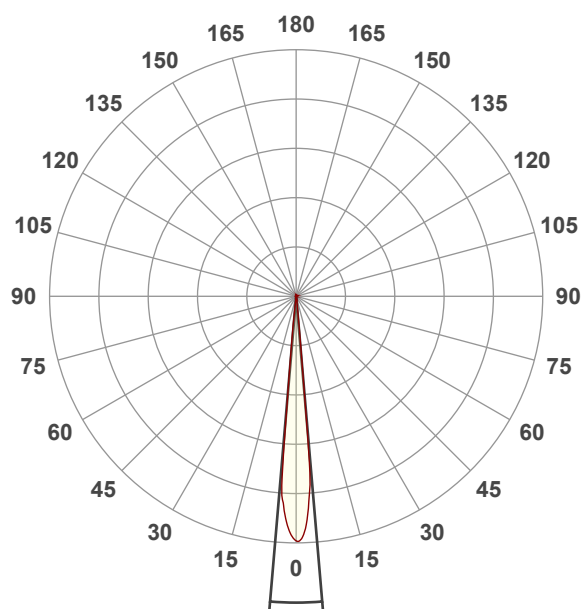
Green

Operator:

Giacomo Matteo

Date and time:

14/06/2024 10:49:26

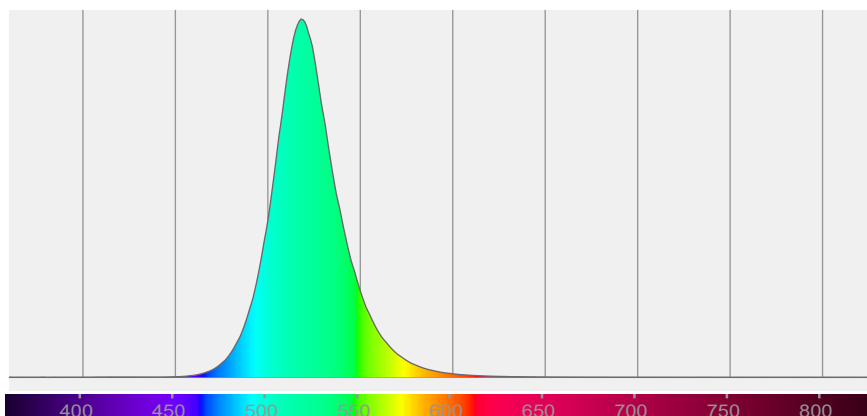


Beam angle 50%: 9,8°

Field angle 10%: 11,8°

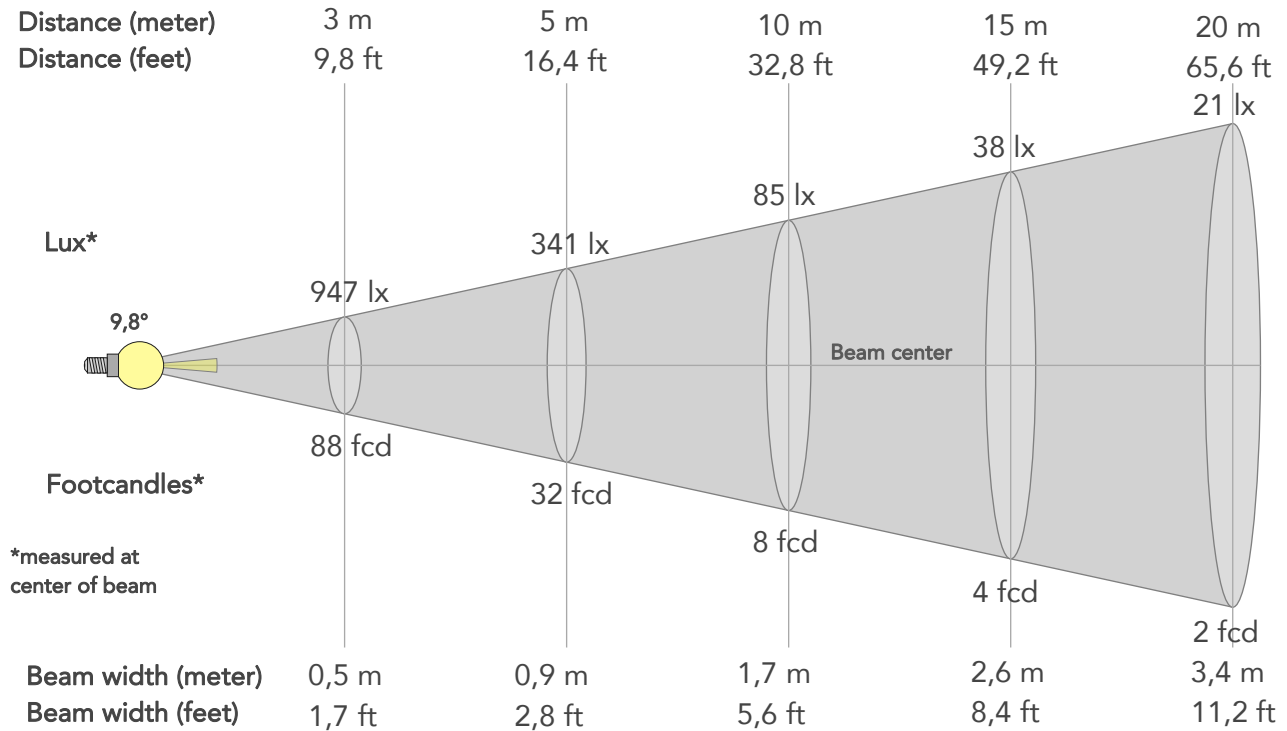
Cut off angle 2.5%: 12,8°

Spectra



BEAM DETAILS

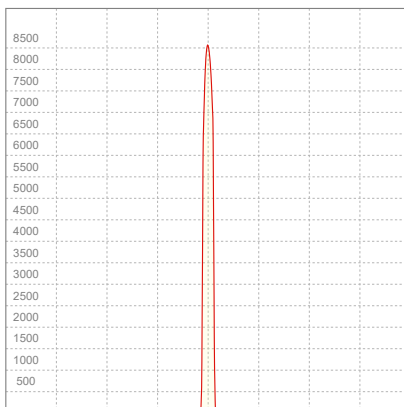
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
9,8°	11,8°	12,8°	98,7%	98,1%



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	8523lx	2131lx	947lx	533lx	341lx	152lx	85lx	38lx	21lx	14lx	9lx	5lx	3lx
Footcand.	792fcd	198fcd	88fcd	49fcd	32fcd	14fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,2m	0,3m	0,5m	0,7m	0,9m	1,3m	1,7m	2,6m	3,4m	4,3m	5,1m	6,8m	8,5m
Beam wid.	0,6ft	1,1ft	1,7ft	2,2ft	2,8ft	4,2ft	5,6ft	8,4ft	11,2ft	14ft	16,8ft	22,4ft	28ft

LINEAR DISTRIBUTION DIAGRAM

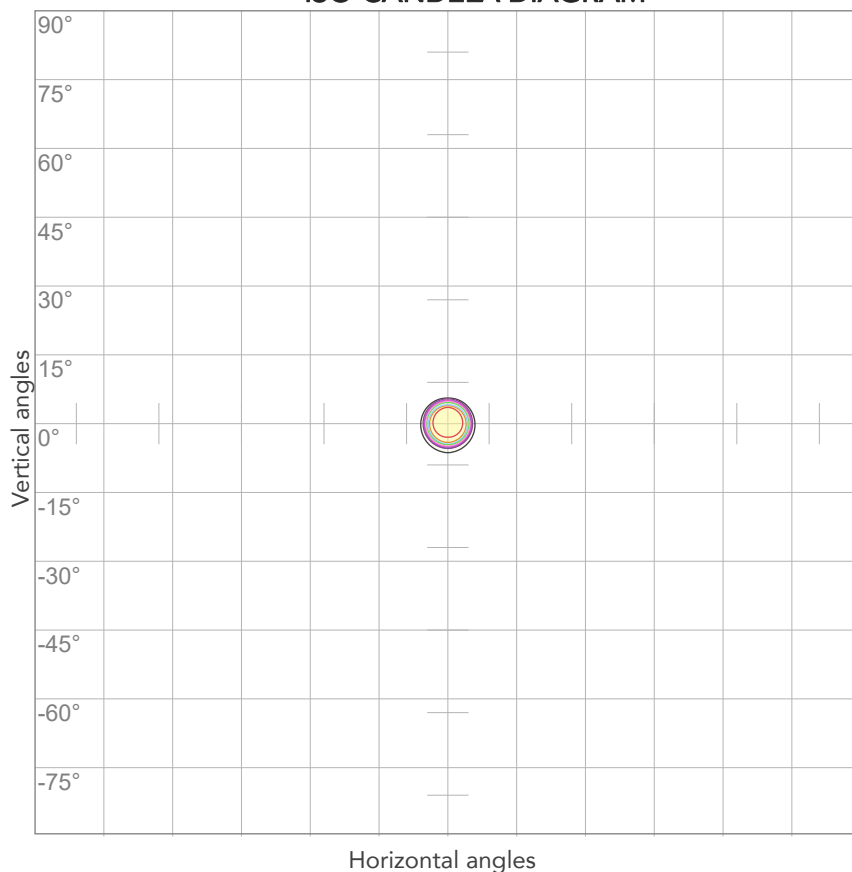


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,088A	16,9W	0,85	12lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



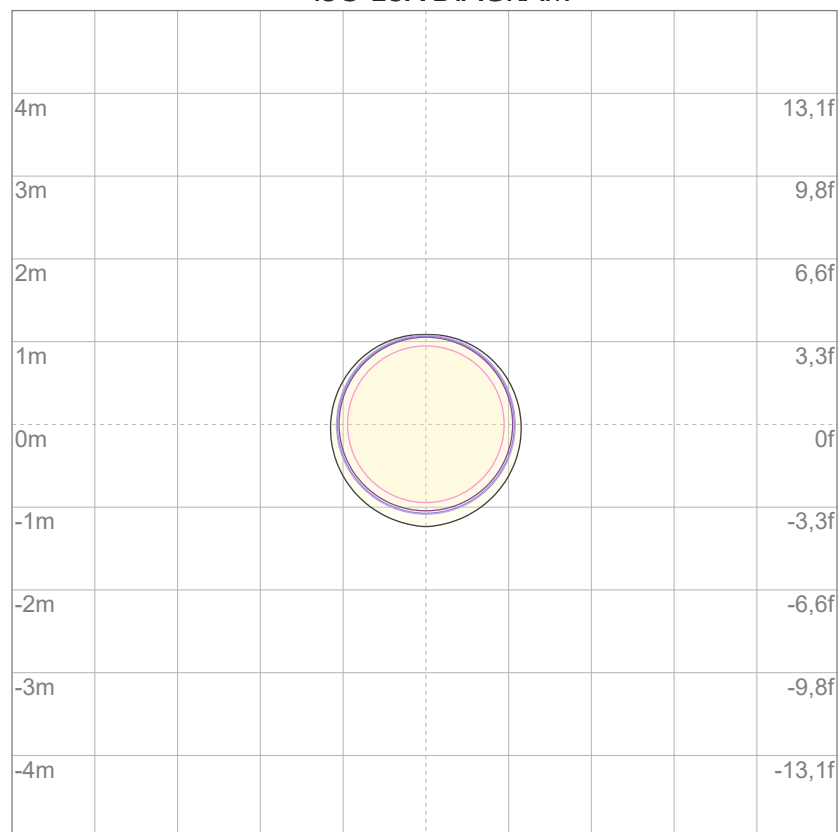
10%	852 cd
20%	1705 cd
30%	2557 cd
40%	3409 cd
50%	4261 cd
60%	5114 cd
70%	5966 cd
80%	6818 cd

Conditions:

Number of c-planes: 2

Candela at center: 8523 cd

ISO LUX DIAGRAM



3%	2,56 lx
5%	4,26 lx
10%	8,52 lx
30%	25,6 lx
50%	42,6 lx

Conditions:

Number of c-planes: 2

Lux at center: 85,2 lx

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



Total lumen output:

48,7 lm

Peak candela output:

567 cd

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 1020 Max Zoom

Target:

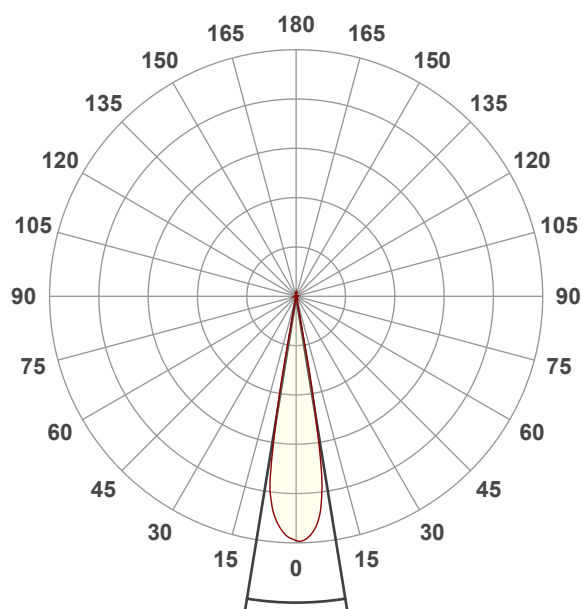
Blue

Operator:

Giacomo Matteo

Date and time:

14/06/2024 11:06:14

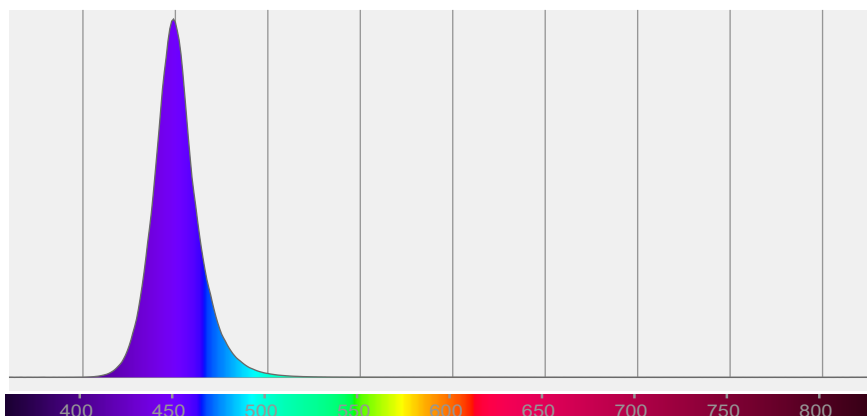


Beam angle 50%: 18,5°

Field angle 10%: 21,8°

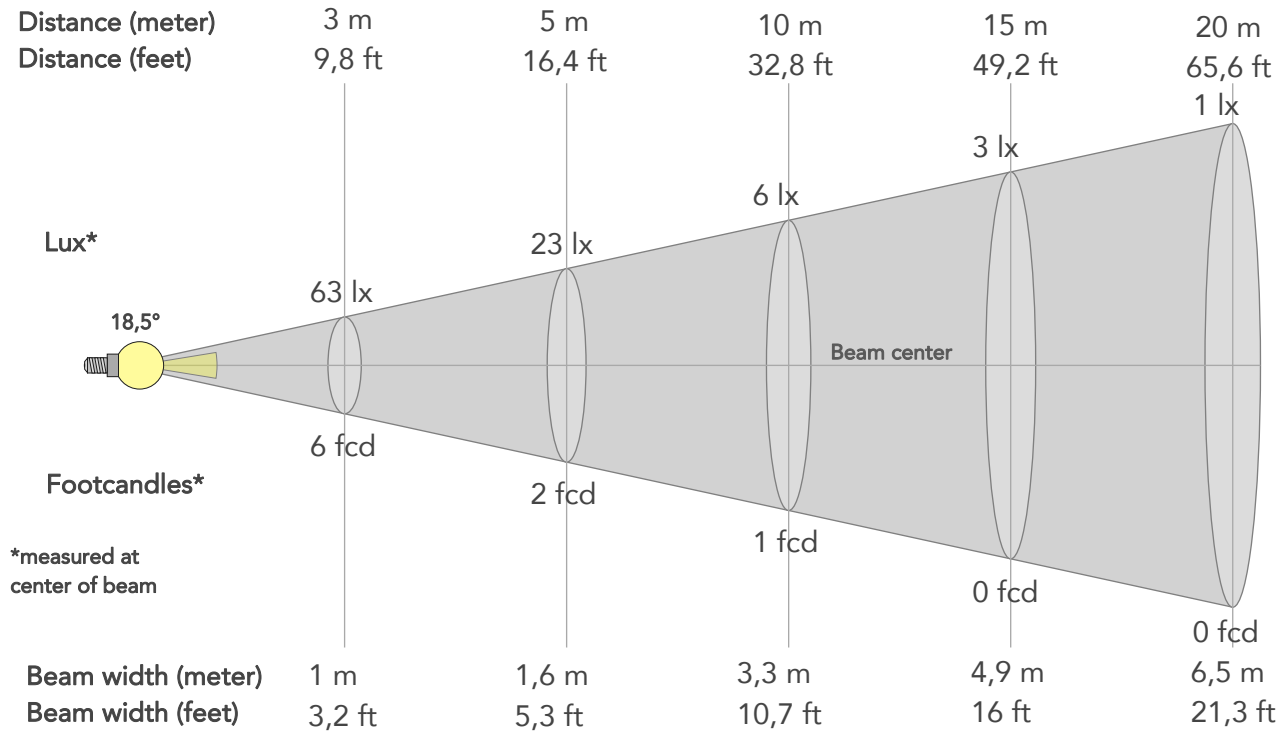
Cut off angle 2.5%: 22,4°

Spectra



BEAM DETAILS

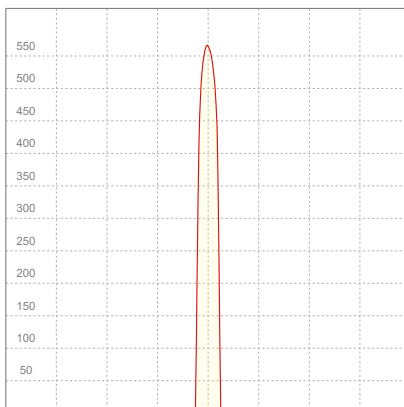
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18,5°	21,8°	22,4°	95,4%	93,9%



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	564lx	141lx	63lx	35lx	23lx	10lx	6lx	3lx	1lx	1lx	1lx	0lx	0lx
Footcand.	52fcd	13fcd	6fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,7m	1m	1,3m	1,6m	2,4m	3,3m	4,9m	6,5m	8,1m	9,8m	13m	16,3m
Beam wid.	1,1ft	2,1ft	3,2ft	4,3ft	5,3ft	8ft	10,7ft	16ft	21,3ft	26,7ft	32ft	42,7ft	53,3ft

LINEAR DISTRIBUTION DIAGRAM

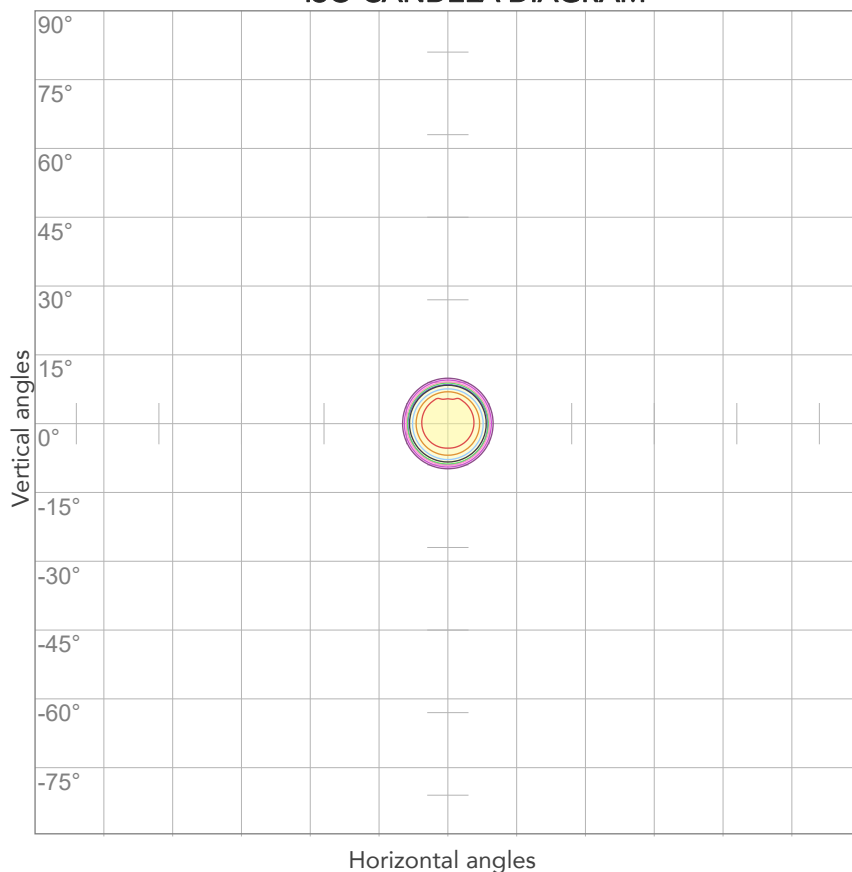


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
228V	0,084A	15,6W	0,82	3lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



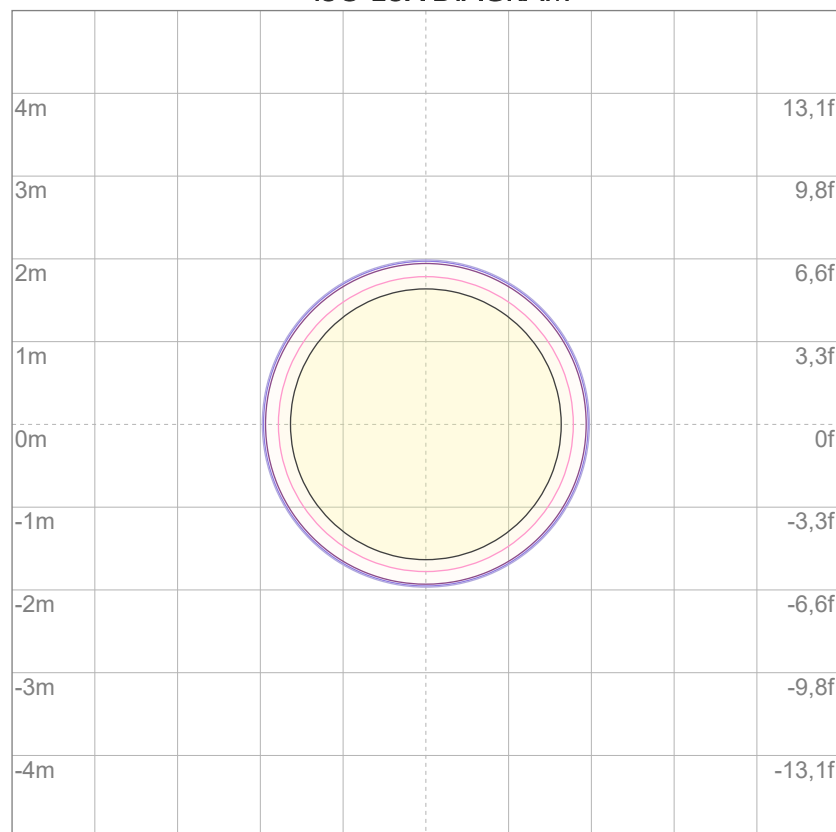
10%	56 cd
20%	113 cd
30%	169 cd
40%	226 cd
50%	282 cd
60%	338 cd
70%	395 cd
80%	451 cd

Conditions:

Number of c-planes: 2

Candela at center: 564 cd

ISO LUX DIAGRAM



3%	0,169 lx
5%	0,282 lx
10%	0,564 lx
30%	1,69 lx
50%	2,82 lx

Conditions:

Number of c-planes: 2

Lux at center: 5,64 lx

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



Total lumen output:

49,7 lm

Peak candela output:

2013 cd

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 1020 Min Zoom

Target:

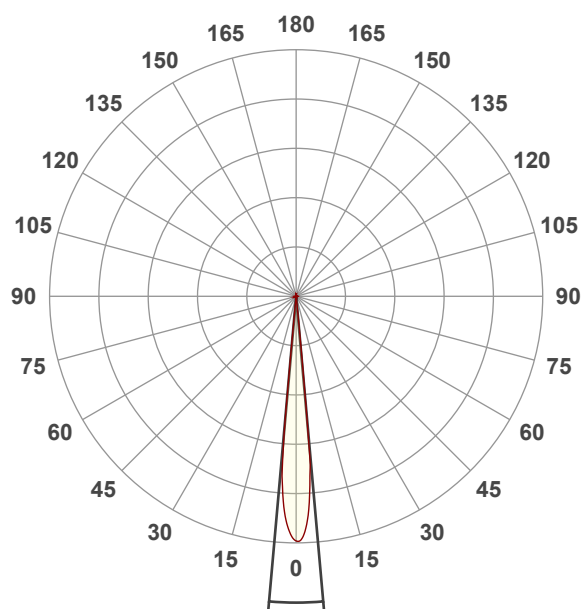
Blue

Operator:

Giacomo Matteo

Date and time:

14/06/2024 10:50:46

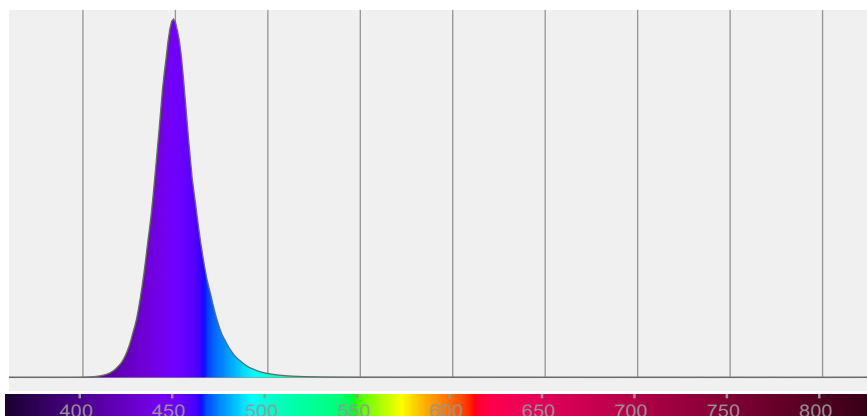


Beam angle 50%: 10,1°

Field angle 10%: 11,2°

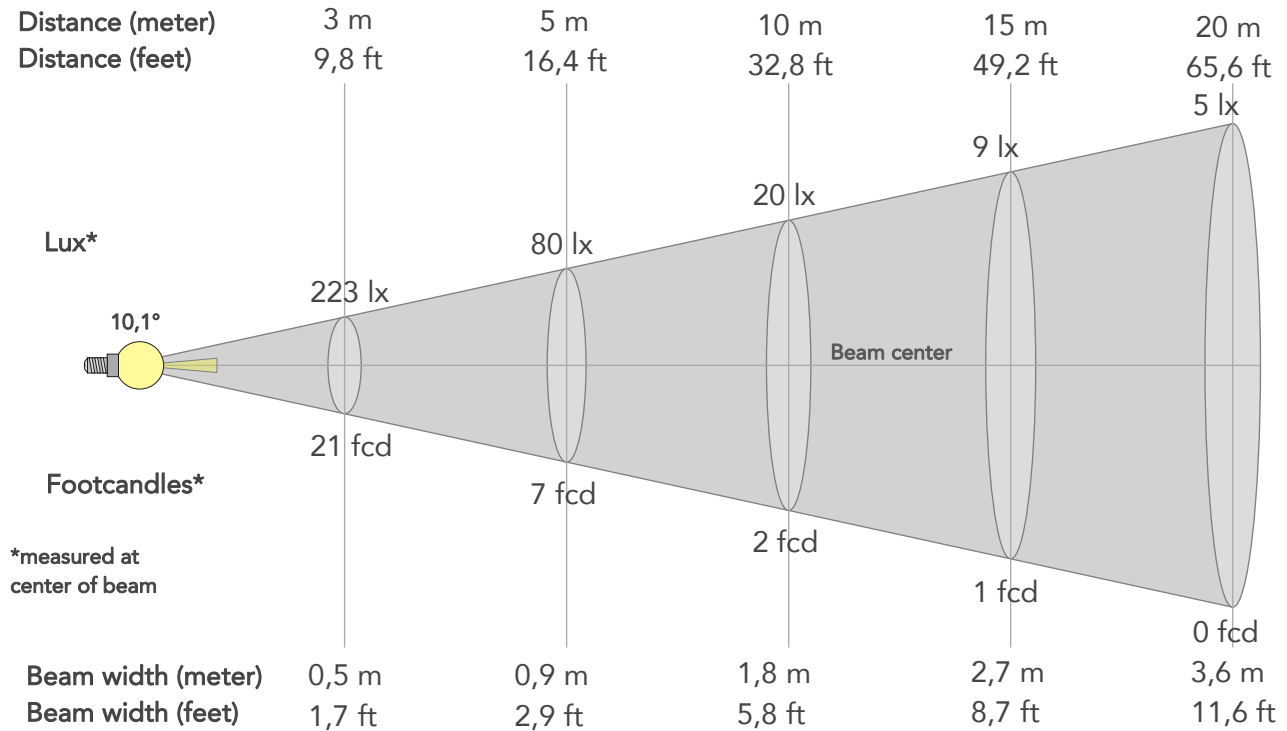
Cut off angle 2.5%: 11,7°

Spectra



BEAM DETAILS

Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
10,1°	11,2°	11,7°	95,7%	93,7%



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	2008lx	502lx	223lx	126lx	80lx	36lx	20lx	9lx	5lx	3lx	2lx	1lx	1lx
Footcand.	187fcd	47fcd	21fcd	12fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,2m	0,4m	0,5m	0,7m	0,9m	1,3m	1,8m	2,7m	3,6m	4,4m	5,3m	7,1m	8,9m
Beam wid.	0,6ft	1,2ft	1,7ft	2,3ft	2,9ft	4,4ft	5,8ft	8,7ft	11,6ft	14,6ft	17,5ft	23,3ft	29,1ft

LINEAR DISTRIBUTION DIAGRAM

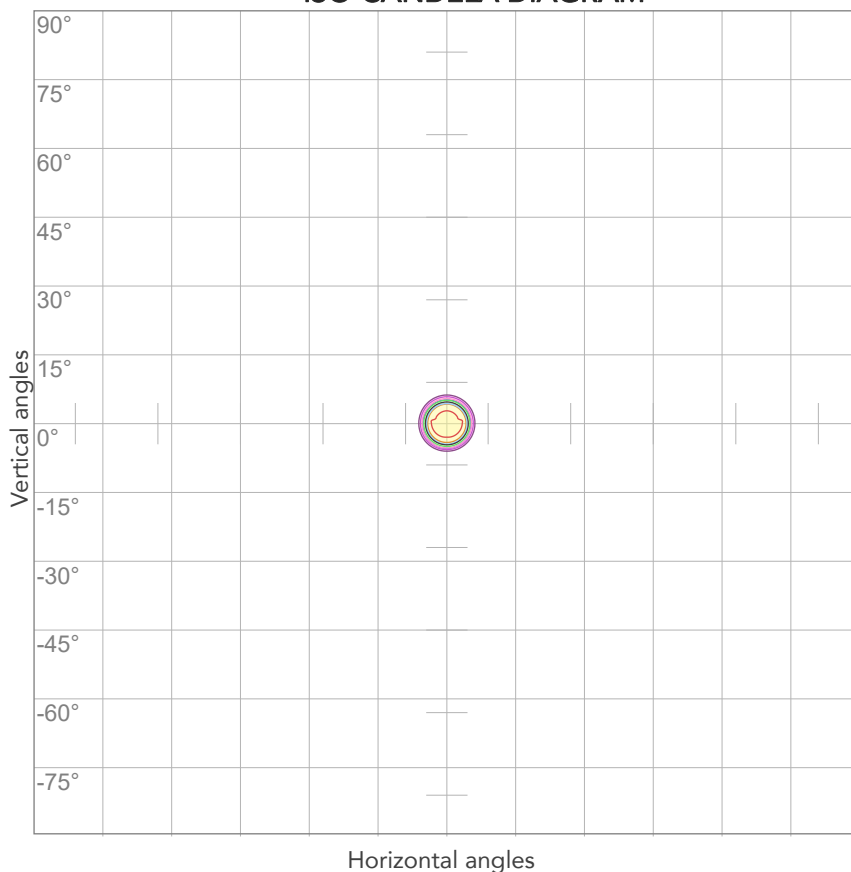


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,083A	15,6W	0,82	3lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



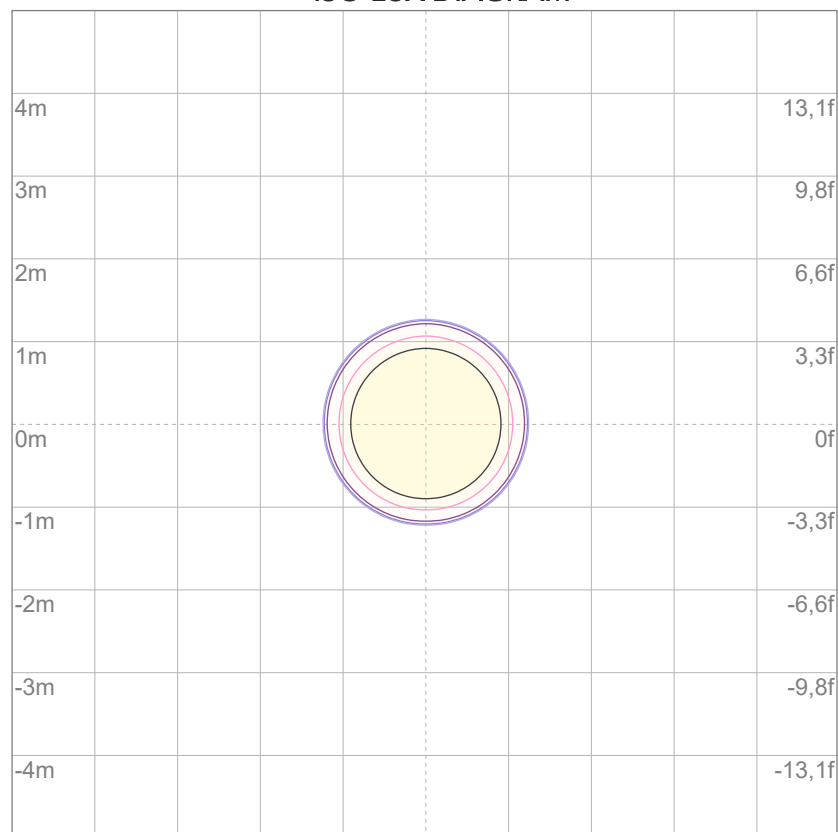
10%	201 cd
20%	402 cd
30%	603 cd
40%	803 cd
50%	1004 cd
60%	1205 cd
70%	1406 cd
80%	1607 cd

Conditions:

Number of c-planes: 2

Candela at center: 2008 cd

ISO LUX DIAGRAM



3%	0,603 lx
5%	1,00 lx
10%	2,01 lx
30%	6,03 lx
50%	10,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 20,1 lx

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



Total lumen output:

245 lm

Peak candela output:

3168 cd

Light quality:

CRI: 77,5

Color temperature:

3382 K

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 1020 Max Zoom

Target:

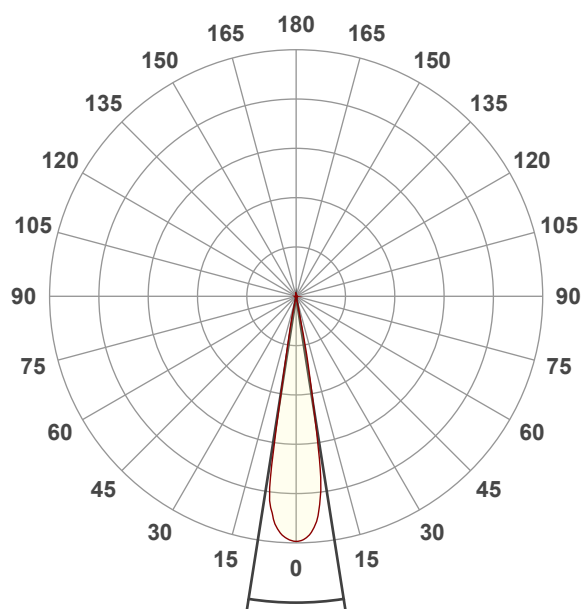
White

Operator:

Giacomo Matteo

Date and time:

14/06/2024 11:07:22

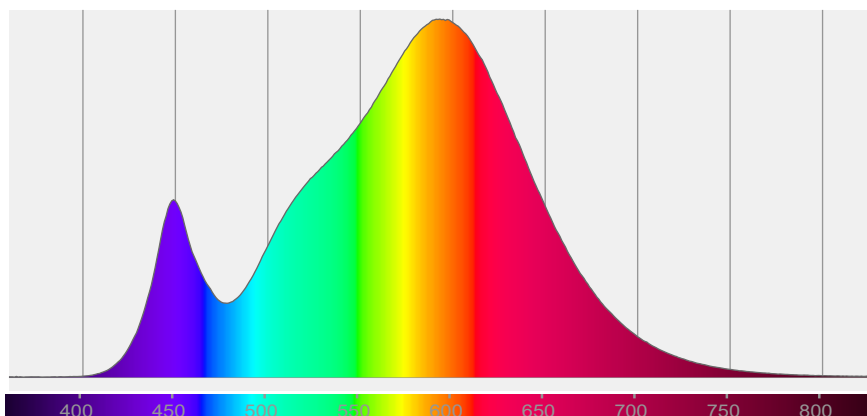


Beam angle 50%: 17,9°

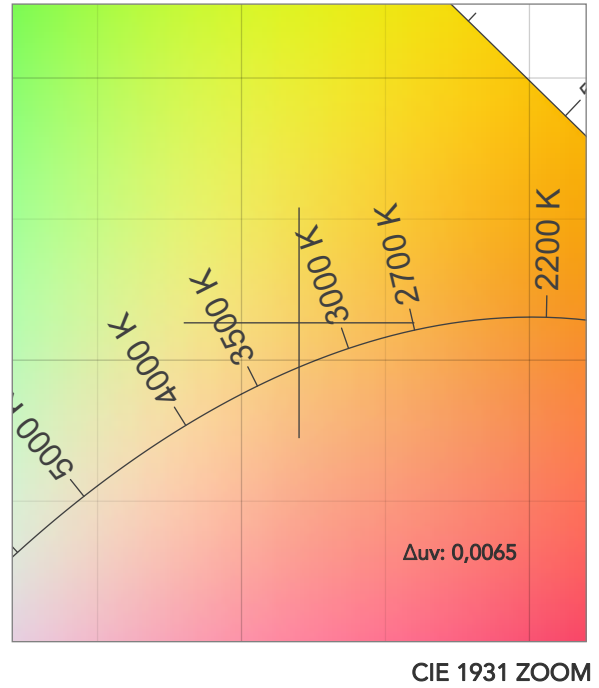
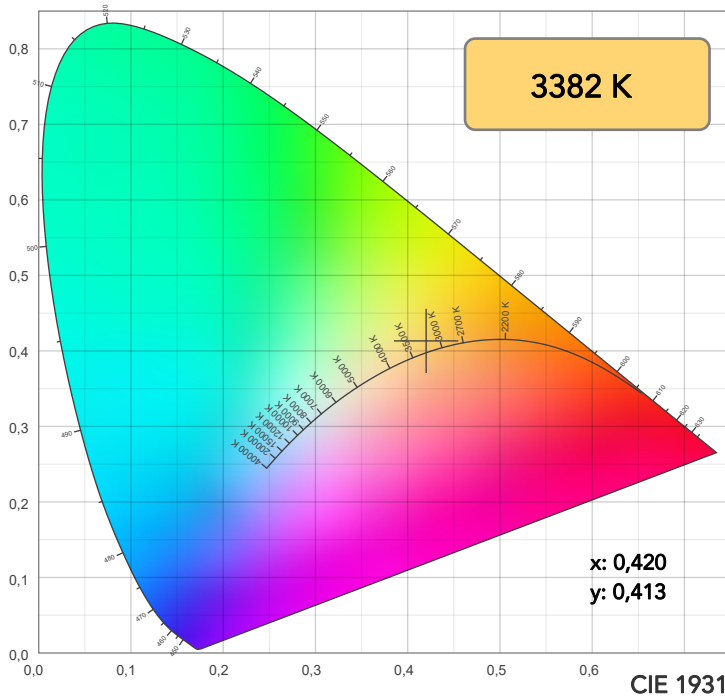
Field angle 10%: 22,2°

Cut off angle 2.5%: 23,7°

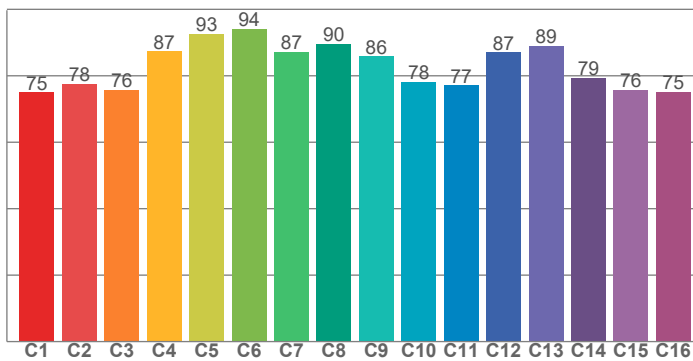
Spectra



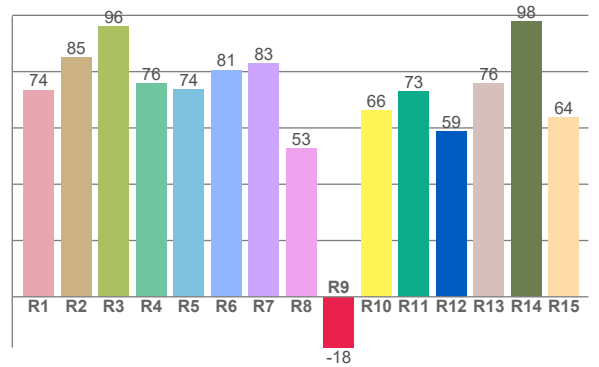
COLOR DETAILS



TM30: 82,6



CRI: 77,5 (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
73,5	84,9	96,2	75,7	73,6	80,6	83,1	52,8	-18,0	66,2	73,1	58,9	75,8	97,8	63,7

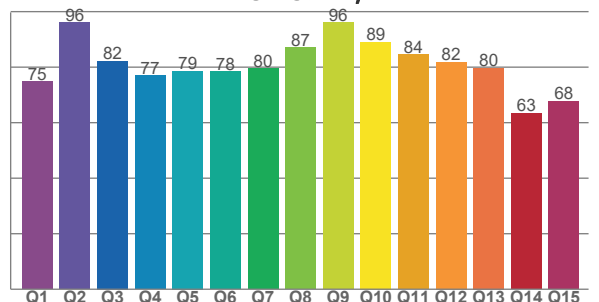
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
75,0	77,6	75,8	87,3	92,7	94,0	87,1	89,6	85,8	78,1	77,1	87,1	89,1	79,4	75,8	75,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,8	96,1	82,1	77,0	78,6	78,3	79,5	87,1	96,1	89,0	84,5	81,8	79,7	63,4	67,7

CQS: 79,1



COLOR PARAMETERS

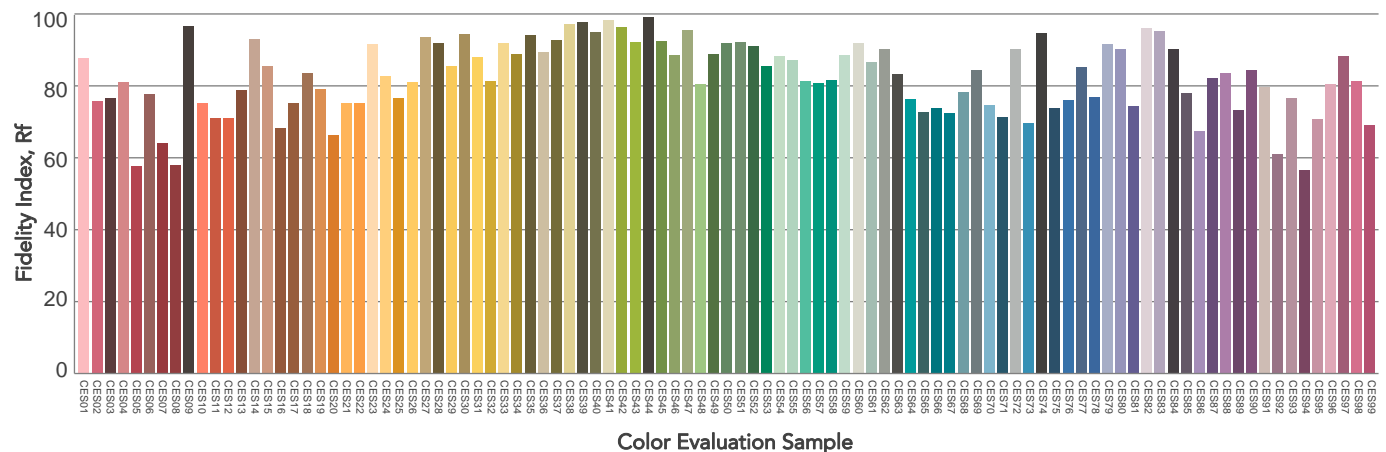
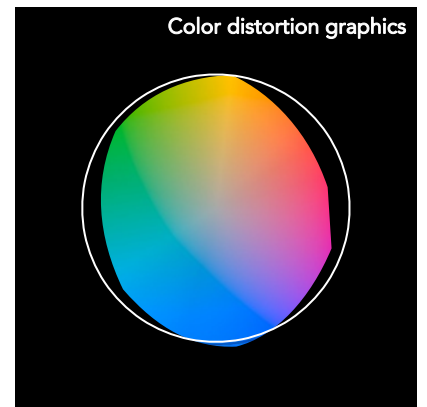
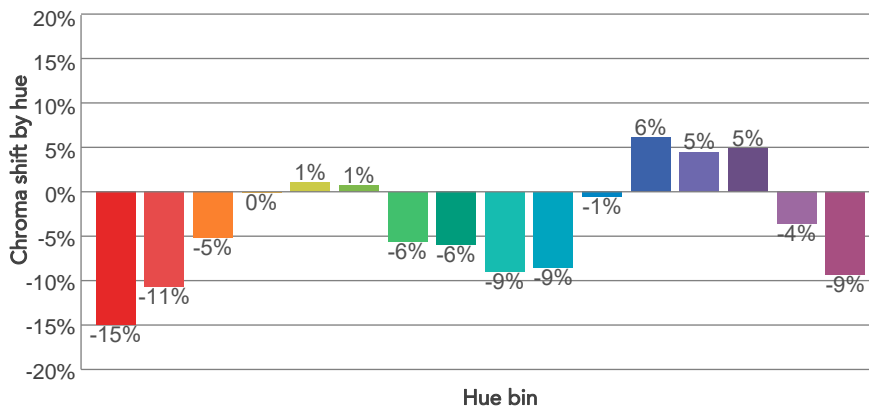
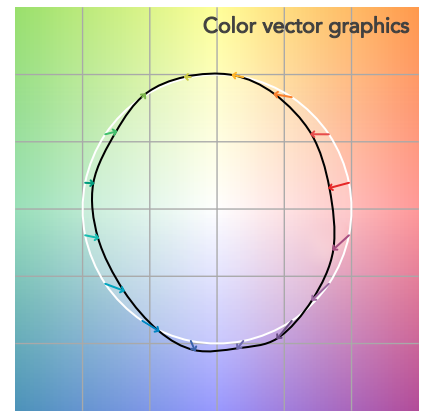
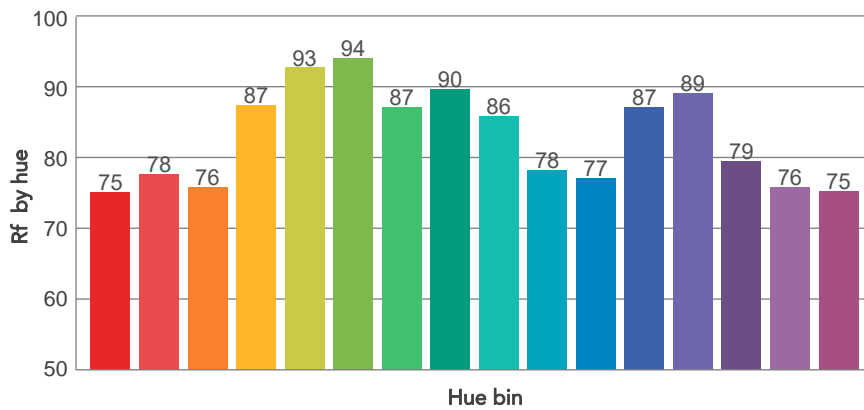
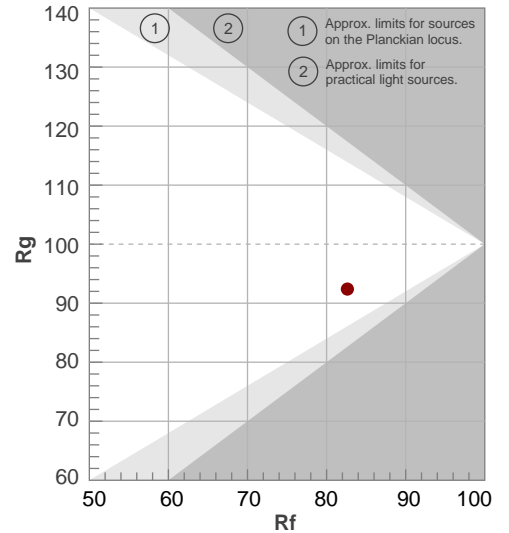
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3382 K	77,5	-18,0	82,6	92,4	79,1	61	0,420	0,413	0,0065

TM30 DETAILS

Rf 82,6
Fidelity index Rf

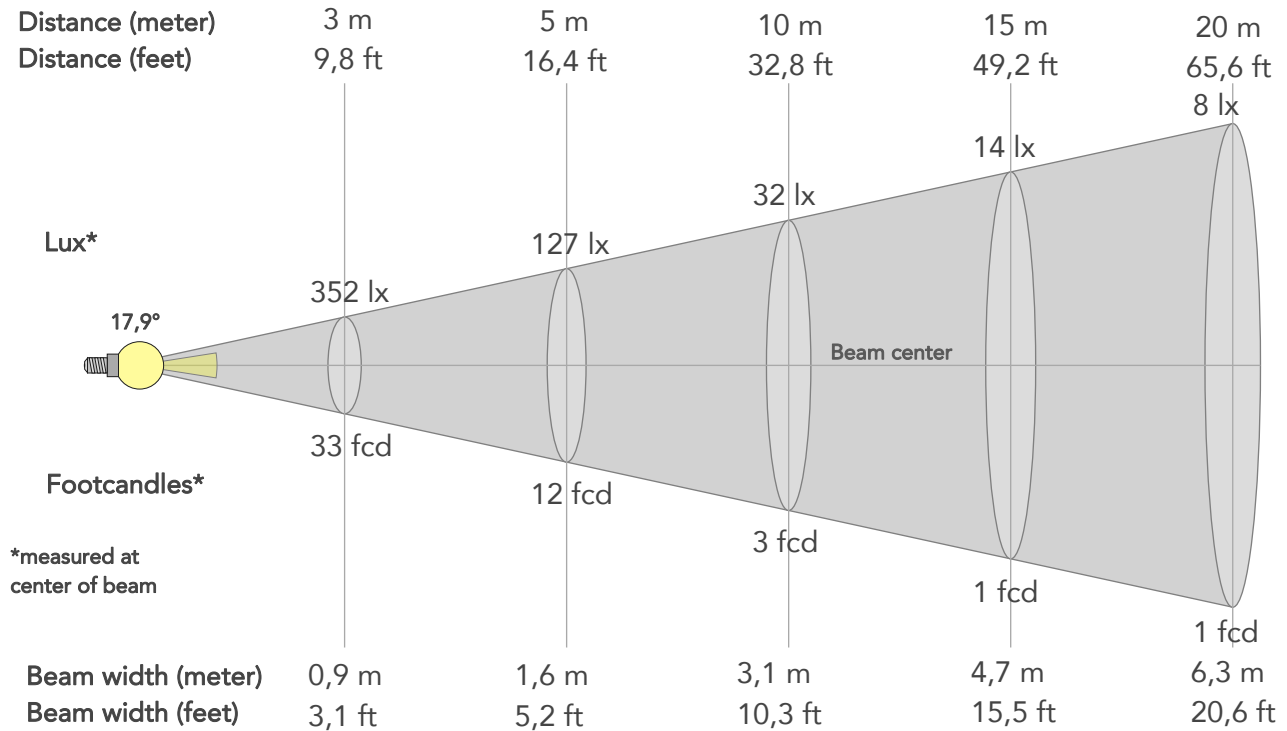
Rg 92,4
Gammut index

		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	75	-15%	-1%
2	78	-11%	7%
3	76	-5%	12%
4	87	0%	8%
5	93	1%	4%
6	94	1%	-3%
7	87	-6%	-6%
8	90	-6%	-1%
9	86	-9%	4%
10	78	-9%	12%
11	77	-1%	14%
12	87	6%	4%
13	89	5%	-5%
14	79	5%	-16%
15	76	-4%	-17%
16	75	-9%	-13%



BEAM DETAILS

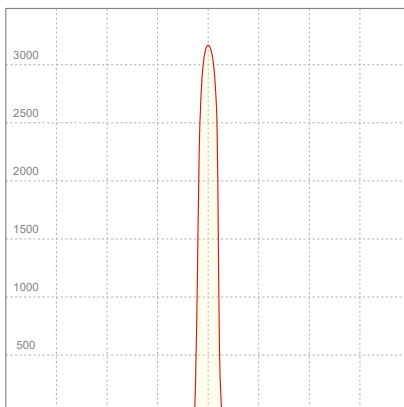
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17,9°	22,2°	23,7°	99,2%	98,9%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	3167lx	792lx	352lx	198lx	127lx	56lx	32lx	14lx	8lx	5lx	4lx	2lx	1lx
Footcand.	294fcd	74fcd	33fcd	18fcd	12fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,9m	1,3m	1,6m	2,4m	3,1m	4,7m	6,3m	7,9m	9,4m	12,6m	15,7m
Beam wid.	1ft	2,1ft	3,1ft	4,1ft	5,2ft	7,7ft	10,3ft	15,5ft	20,6ft	25,8ft	30,9ft	41,2ft	51,5ft

LINEAR DISTRIBUTION DIAGRAM

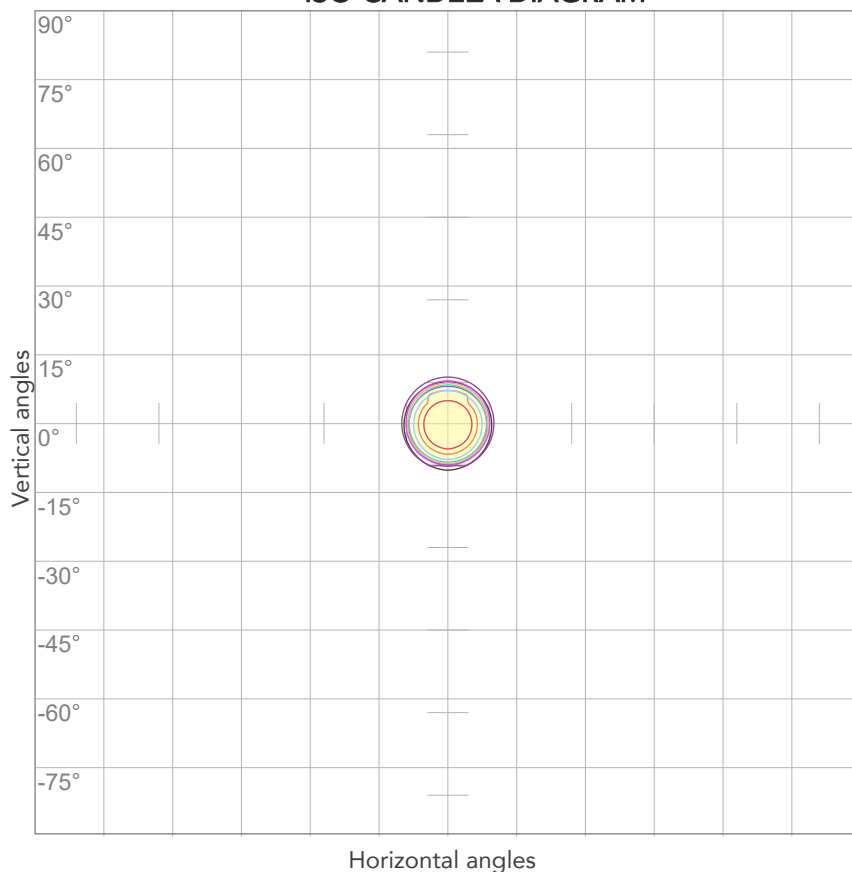


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,092A	18,1W	0,87	13lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



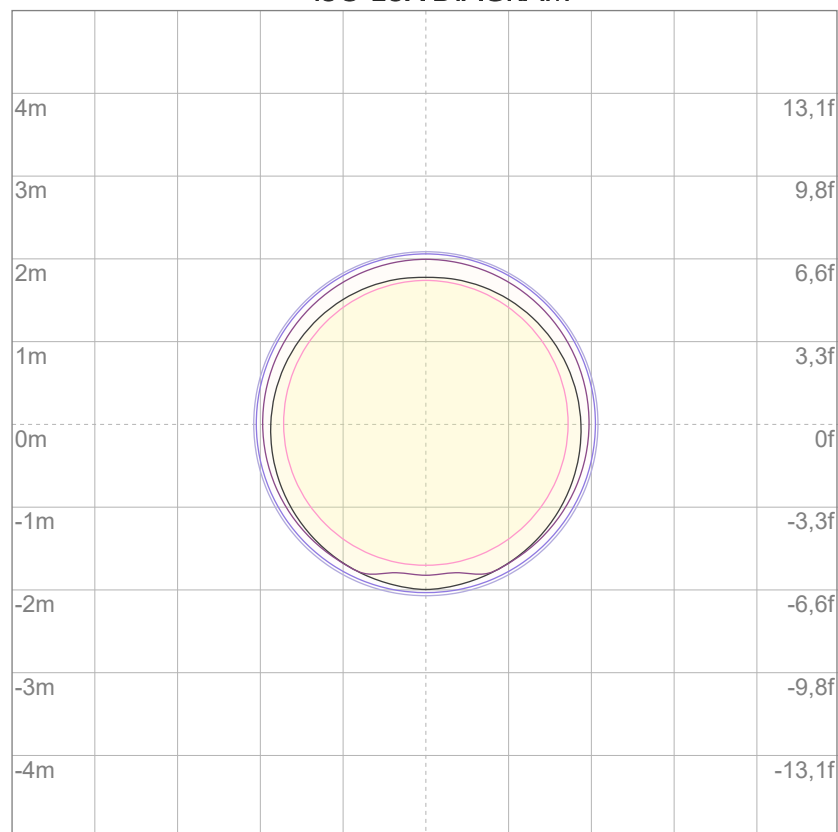
10%	317 cd
20%	633 cd
30%	950 cd
40%	1267 cd
50%	1584 cd
60%	1900 cd
70%	2217 cd
80%	2534 cd

Conditions:

Number of c-planes: 2

Candela at center: 3167 cd

ISO LUX DIAGRAM



3%	0,950 lx
5%	1,58 lx
10%	3,17 lx
30%	9,50 lx
50%	15,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 31,7 lx

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



Total lumen output:

252 lm

Peak candela output:

11109 cd

Light quality:

CRI: 77,4

Color temperature:

3357 K

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 1020 Min Zoom

Target:

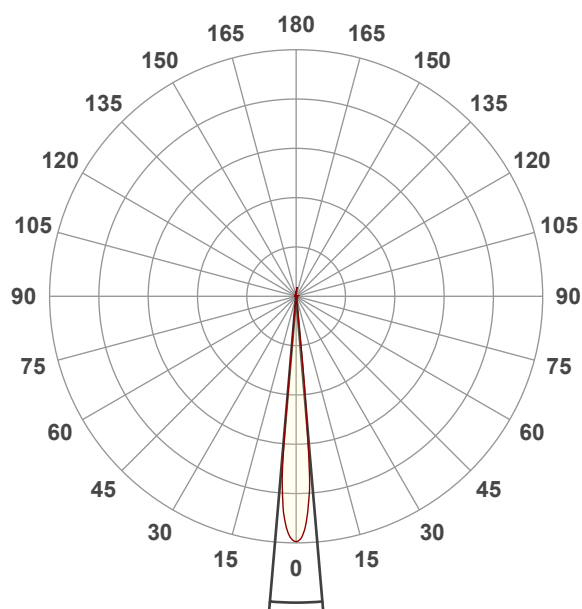
White

Operator:

Giacomo Matteo

Date and time:

14/06/2024 10:51:59

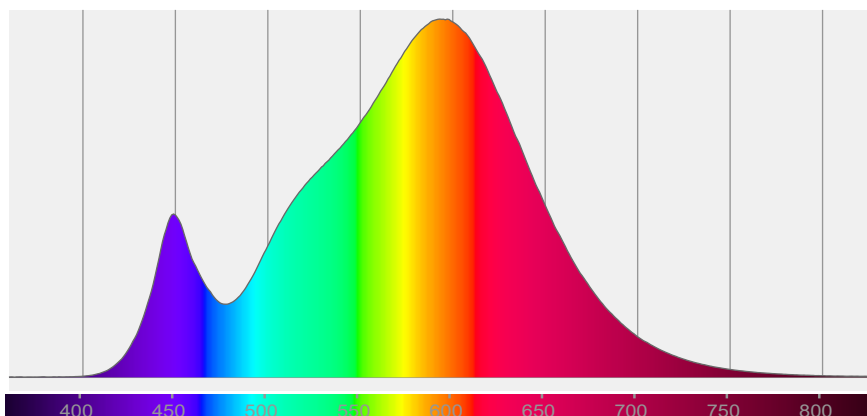


Beam angle 50%: 9,8°

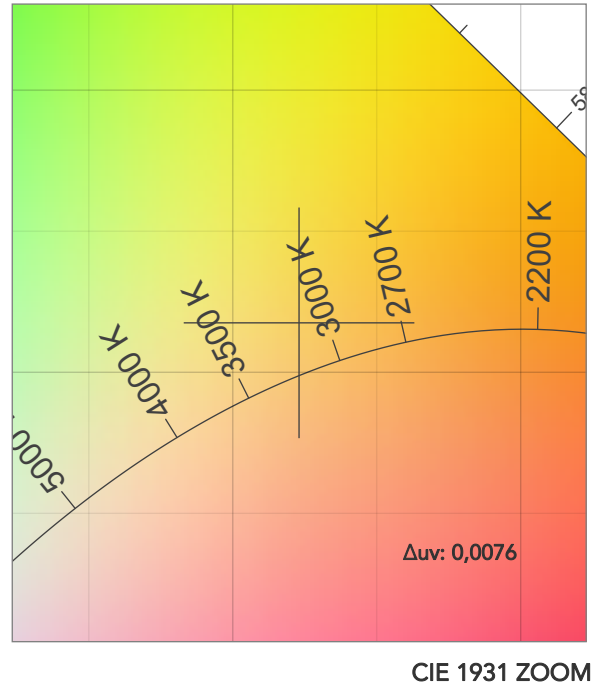
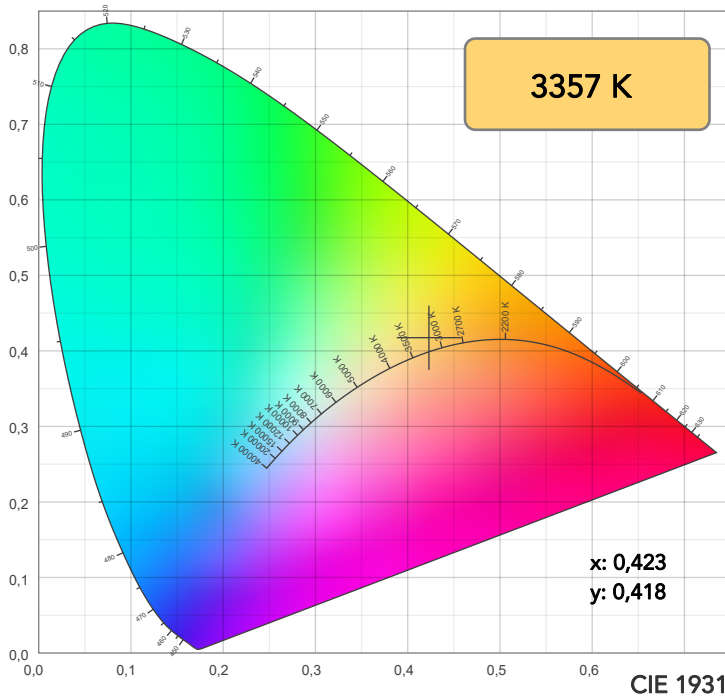
Field angle 10%: 11,6°

Cut off angle 2.5%: 12°

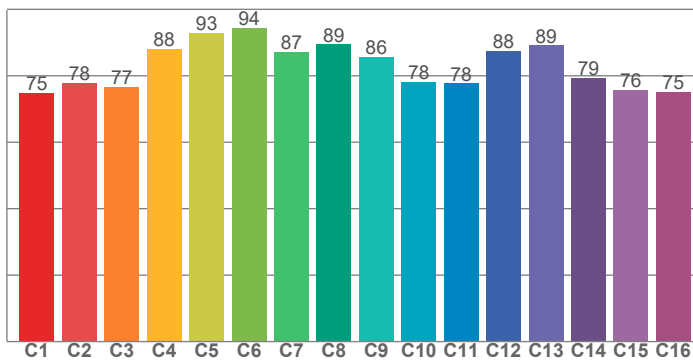
Spectra



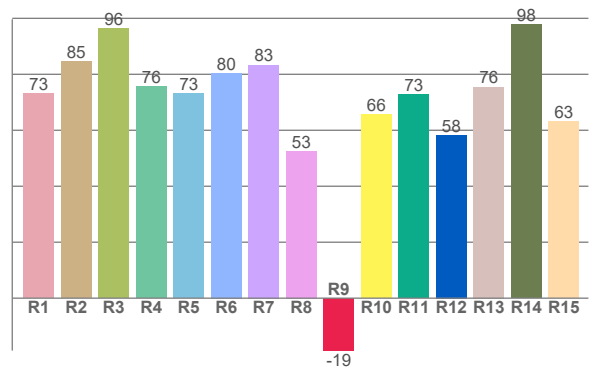
COLOR DETAILS



TM30: 82,9



CRI: 77,4 (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
73,3	84,7	96,3	75,6	73,2	80,4	83,4	52,6	-18,7	65,7	72,9	58,3	75,5	97,9	63,2

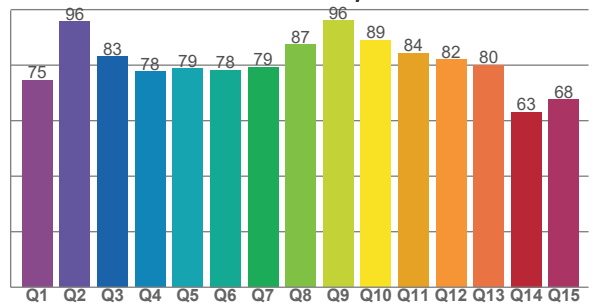
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
74,9	77,8	76,6	88,1	93,0	94,4	87,1	89,4	85,7	78,1	77,7	87,5	89,2	79,4	75,8	75,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,6	95,7	83,0	77,7	78,7	78,2	79,2	87,4	96,0	89,0	84,4	82,1	80,0	63,1	67,6

CQS: 79,1



COLOR PARAMETERS

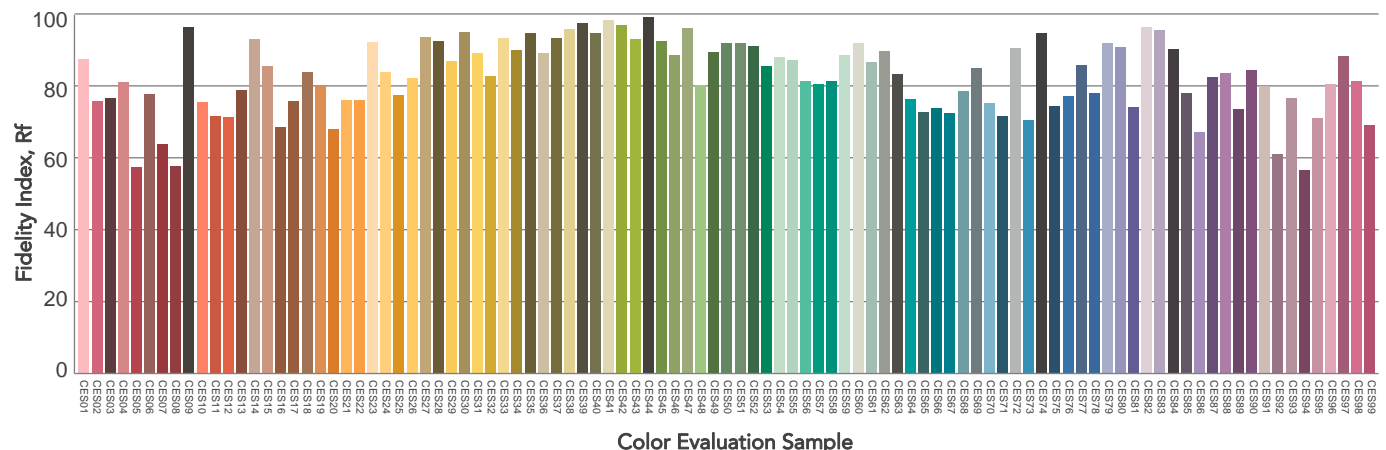
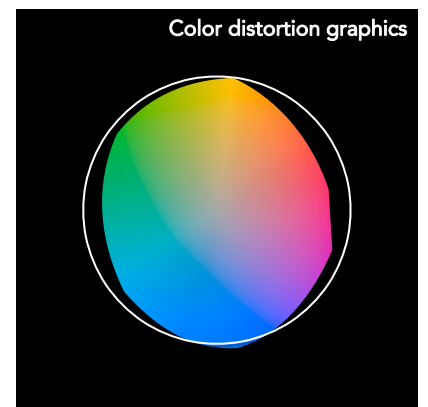
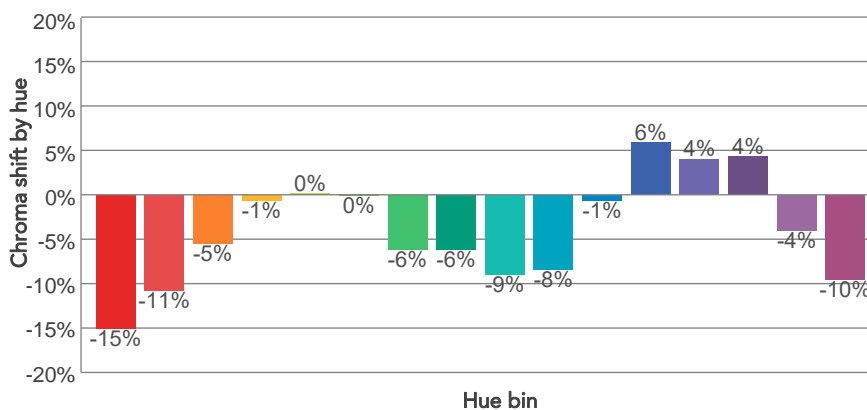
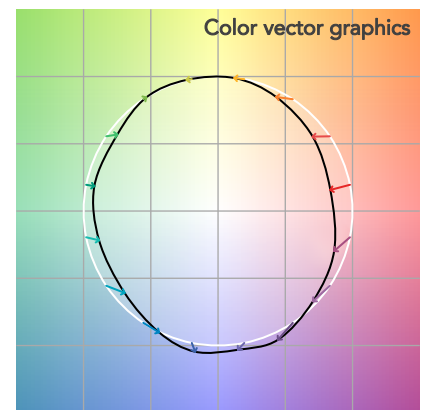
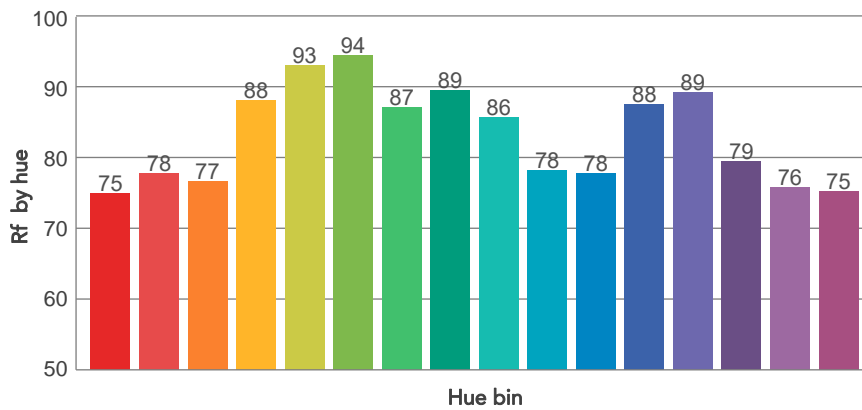
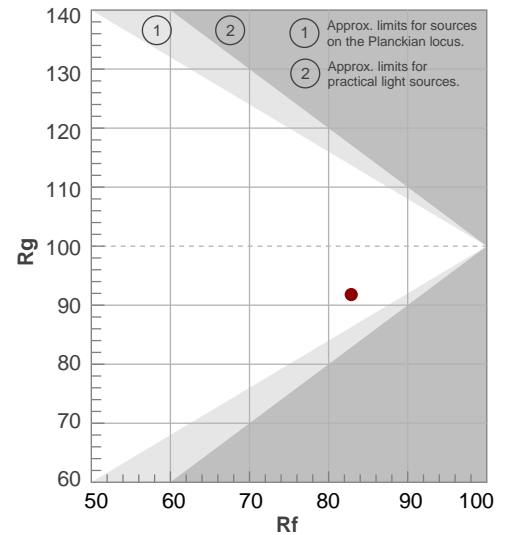
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3357 K	77,4	-18,7	82,9	91,8	79,1	61	0,423	0,418	0,0076

TM30 DETAILS

Rf 82,9
Fidelity index Rf

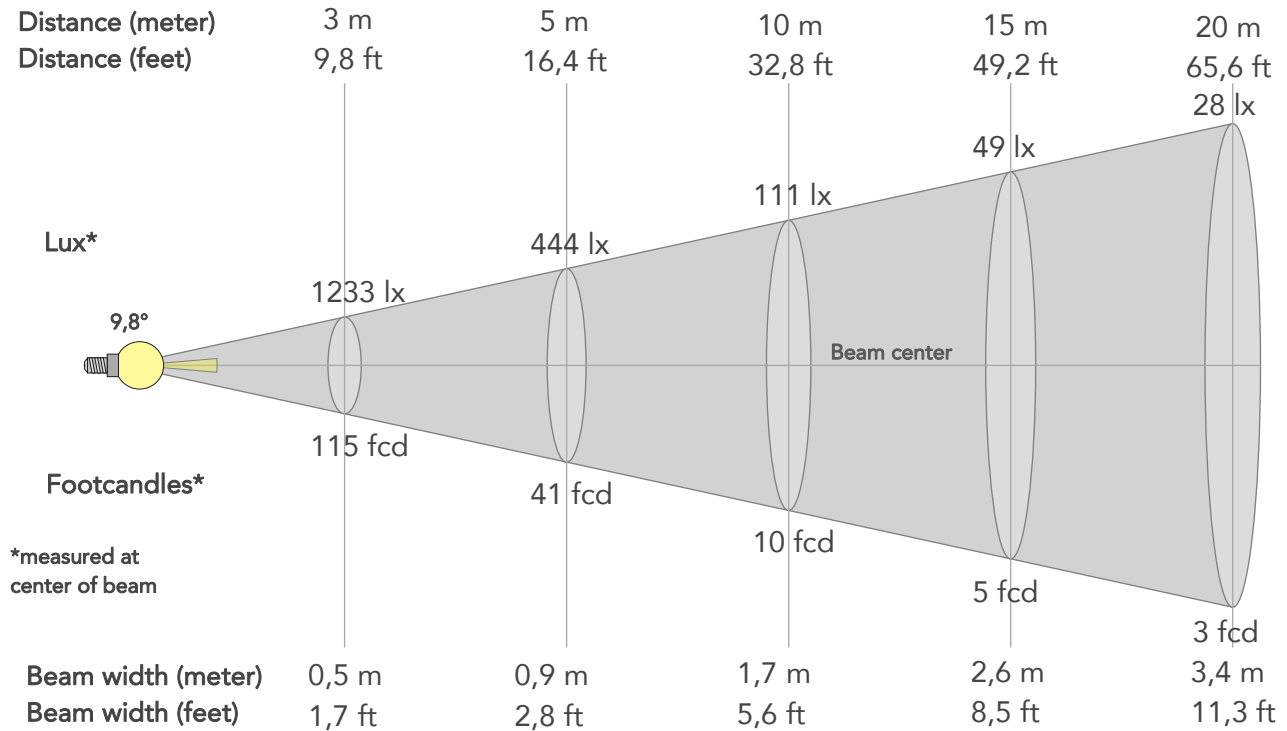
Rg 91,8
Gammut index

		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	75	-15%	-1%
2	78	-11%	7%
3	77	-5%	11%
4	88	-1%	7%
5	93	0%	4%
6	94	0%	-3%
7	87	-6%	-6%
8	89	-6%	0%
9	86	-9%	4%
10	78	-8%	12%
11	78	-1%	14%
12	88	6%	4%
13	89	4%	-6%
14	79	4%	-16%
15	76	-4%	-17%
16	75	-10%	-12%



BEAM DETAILS

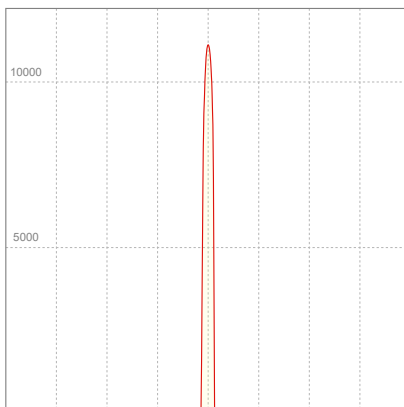
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
9,8°	11,6°	12°	99,0%	98,5%



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	11098lx	2774lx	1233lx	694lx	444lx	197lx	111lx	49lx	28lx	18lx	12lx	7lx	4lx
Footcand.	1031fcd	258fcd	115fcd	64fcd	41fcd	18fcd	10fcd	5fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,2m	0,3m	0,5m	0,7m	0,9m	1,3m	1,7m	2,6m	3,4m	4,3m	5,2m	6,9m	8,6m
Beam wid.	0,6ft	1,1ft	1,7ft	2,3ft	2,8ft	4,2ft	5,6ft	8,5ft	11,3ft	14,1ft	16,9ft	22,6ft	28,2ft

LINEAR DISTRIBUTION DIAGRAM

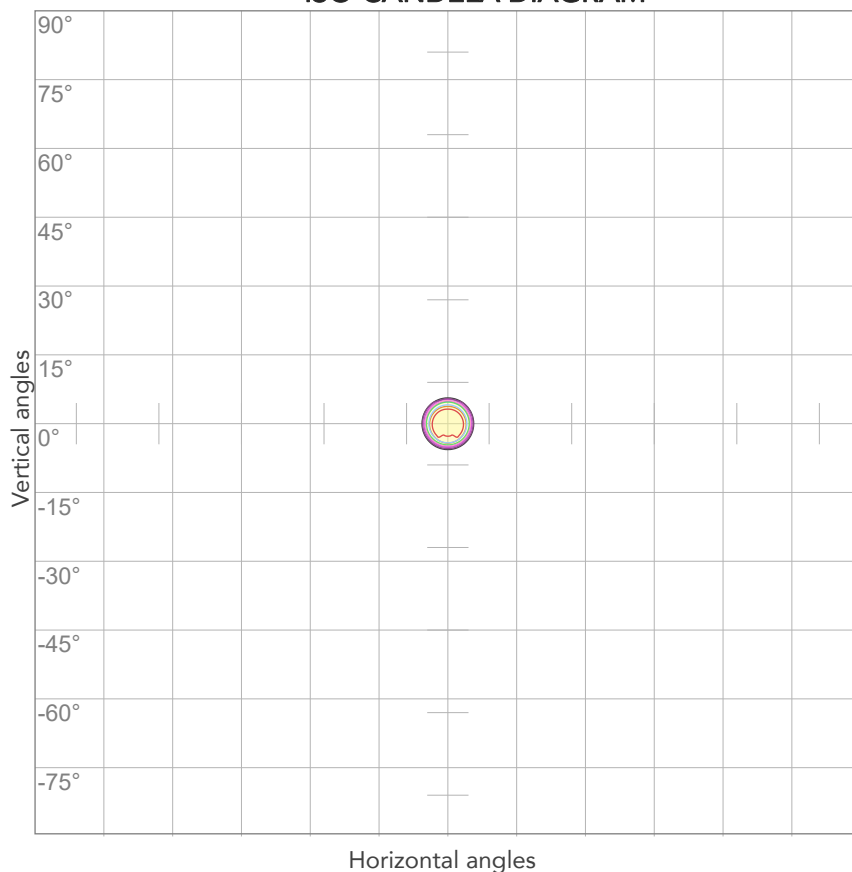


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,090A	17,7W	0,86	14lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



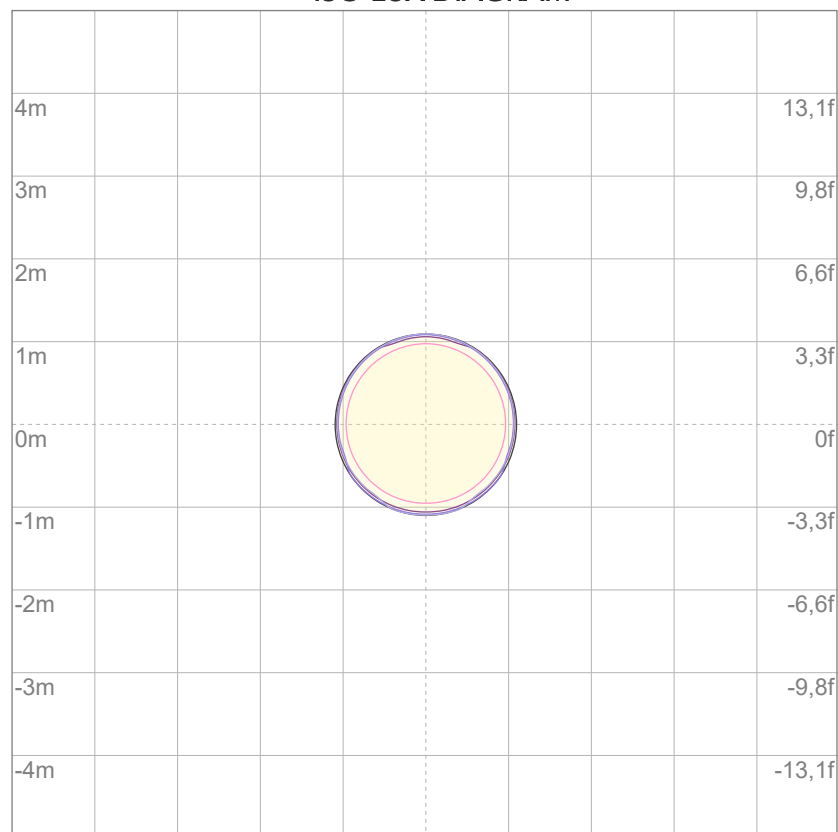
10%	1110 cd
20%	2220 cd
30%	3329 cd
40%	4439 cd
50%	5549 cd
60%	6659 cd
70%	7768 cd
80%	8878 cd

Conditions:

Number of c-planes: 2

Candela at center: 11098 cd

ISO LUX DIAGRAM



3%	3,33 lx
5%	5,55 lx
10%	11,1 lx
30%	33,3 lx
50%	55,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 111 lx

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



Total lumen output:

298 lm

Peak candela output:

3873 cd

Light quality:

CRI: 95,8

Color temperature:

2900 K

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 1020 Max Zoom

Target:

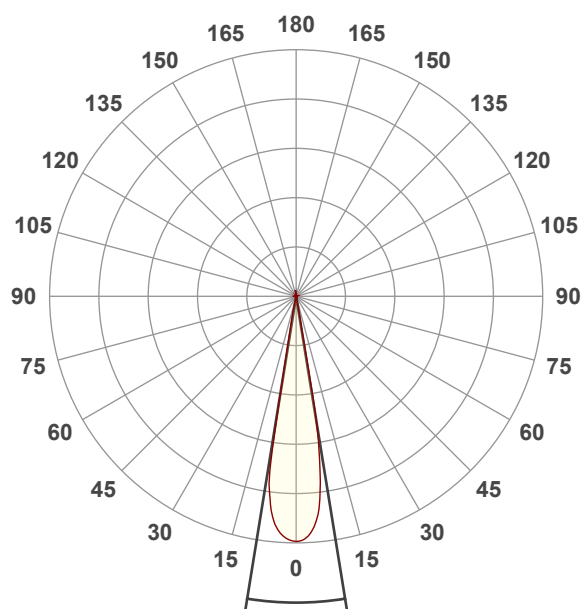
2800K

Operator:

Giacomo Matteo

Date and time:

14/06/2024 11:08:57

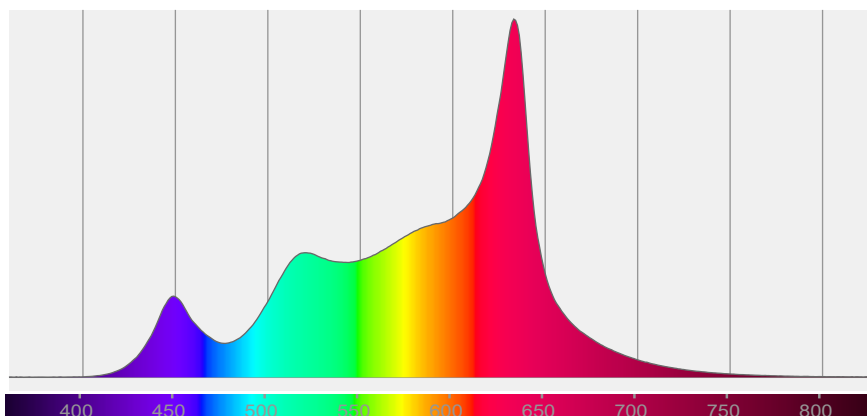


Beam angle 50%: 18,4°

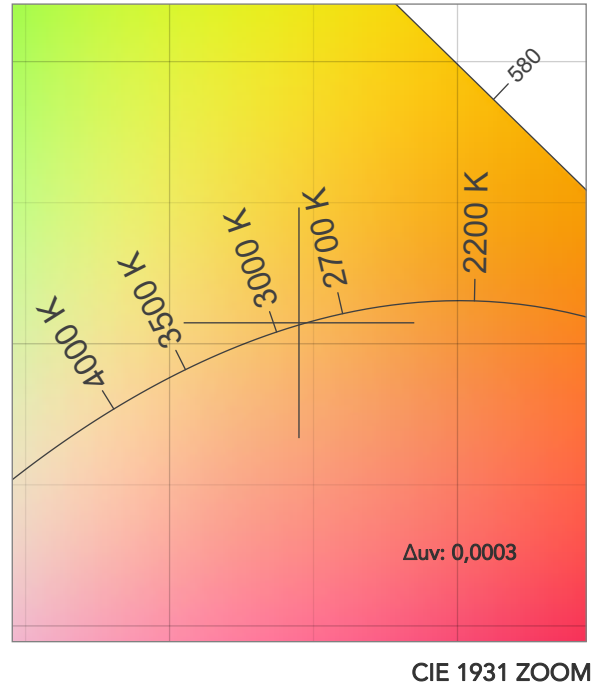
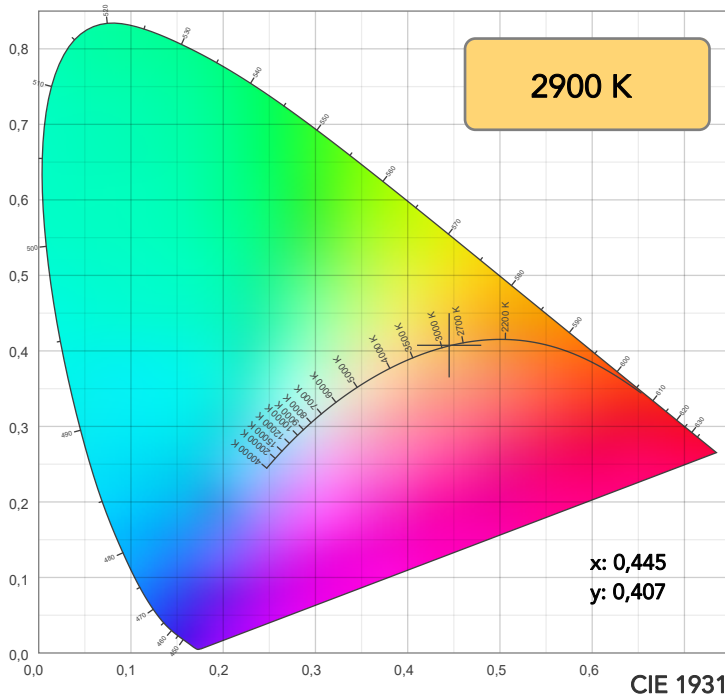
Field angle 10%: 21,1°

Cut off angle 2.5%: 22,3°

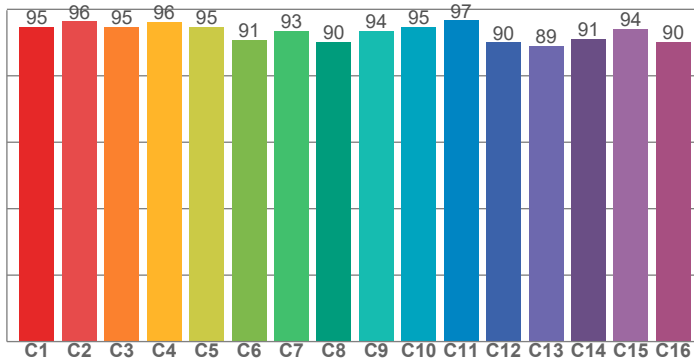
Spectra



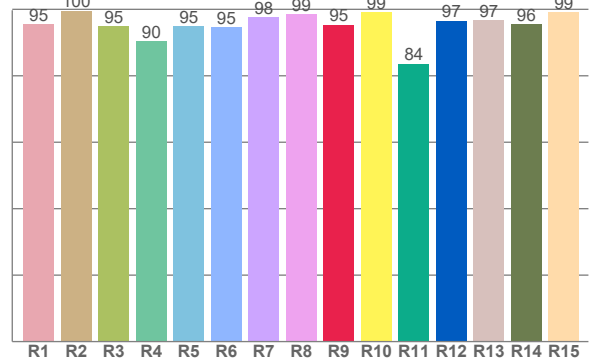
COLOR DETAILS



TM30: 93,7



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	99,6	94,9	90,5	95,0	94,7	97,7	98,6	95,4	99,2	83,7	96,5	96,6	95,6	99,1

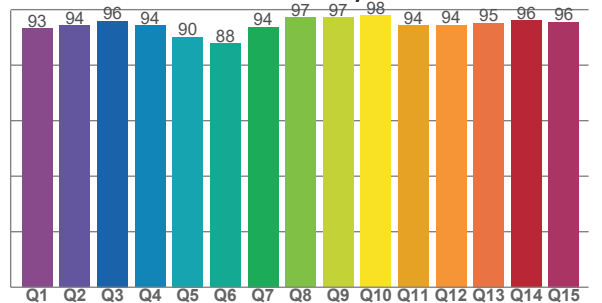
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,8	96,3	94,7	96,2	94,8	90,8	93,4	90,2	93,6	94,8	96,7	90,0	89,0	91,1	94,1	90,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,1	94,3	95,9	94,2	90,1	87,7	93,8	97,2	97,2	97,8	94,3	94,4	95,2	96,1	95,5

CQS: 93,7



COLOR PARAMETERS

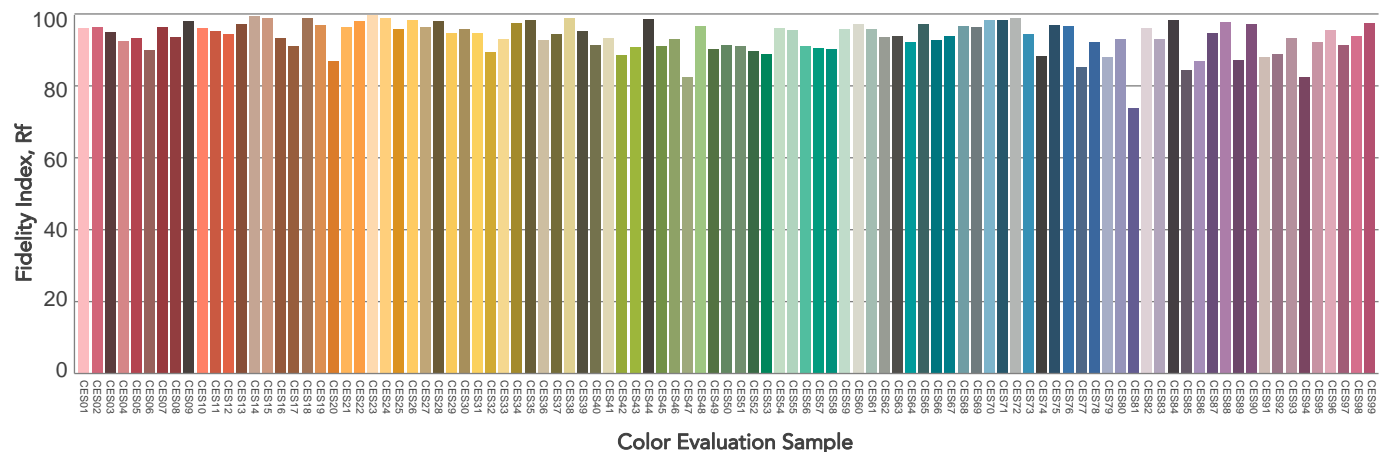
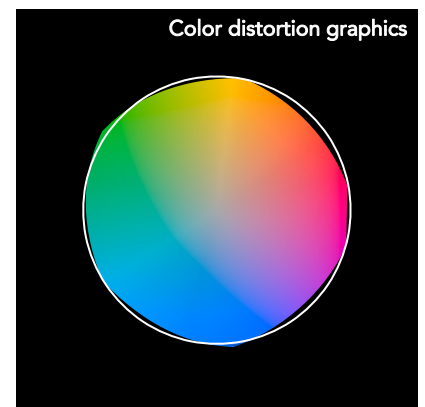
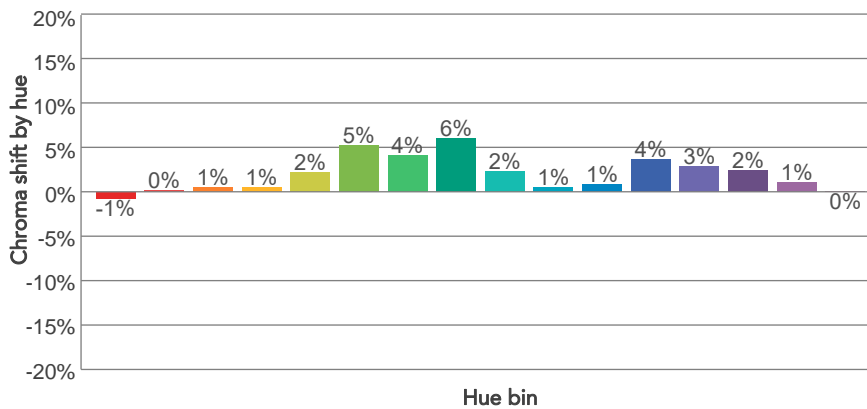
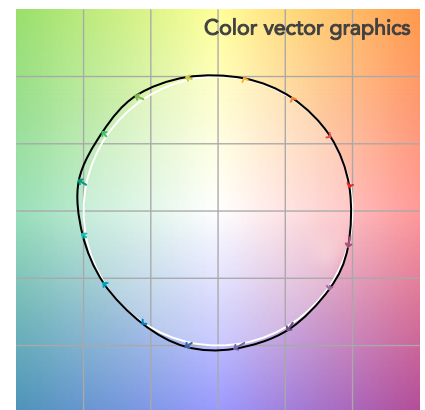
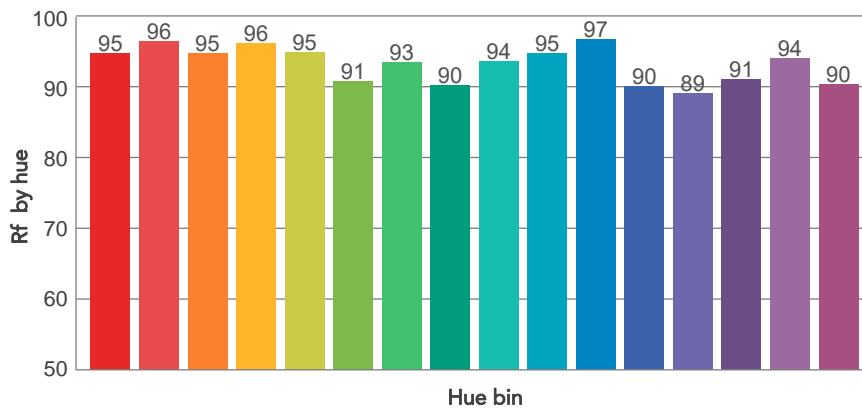
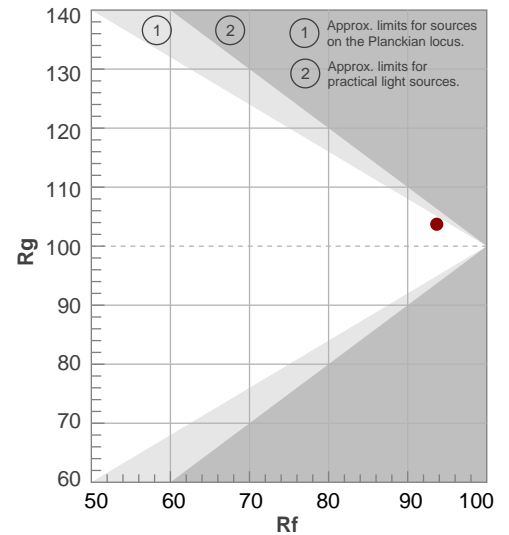
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2900 K	95,8	95,4	93,7	103,7	93,7	85	0,445	0,407	0,0003

TM30 DETAILS

Rf 93,7
Fidelity index Rf

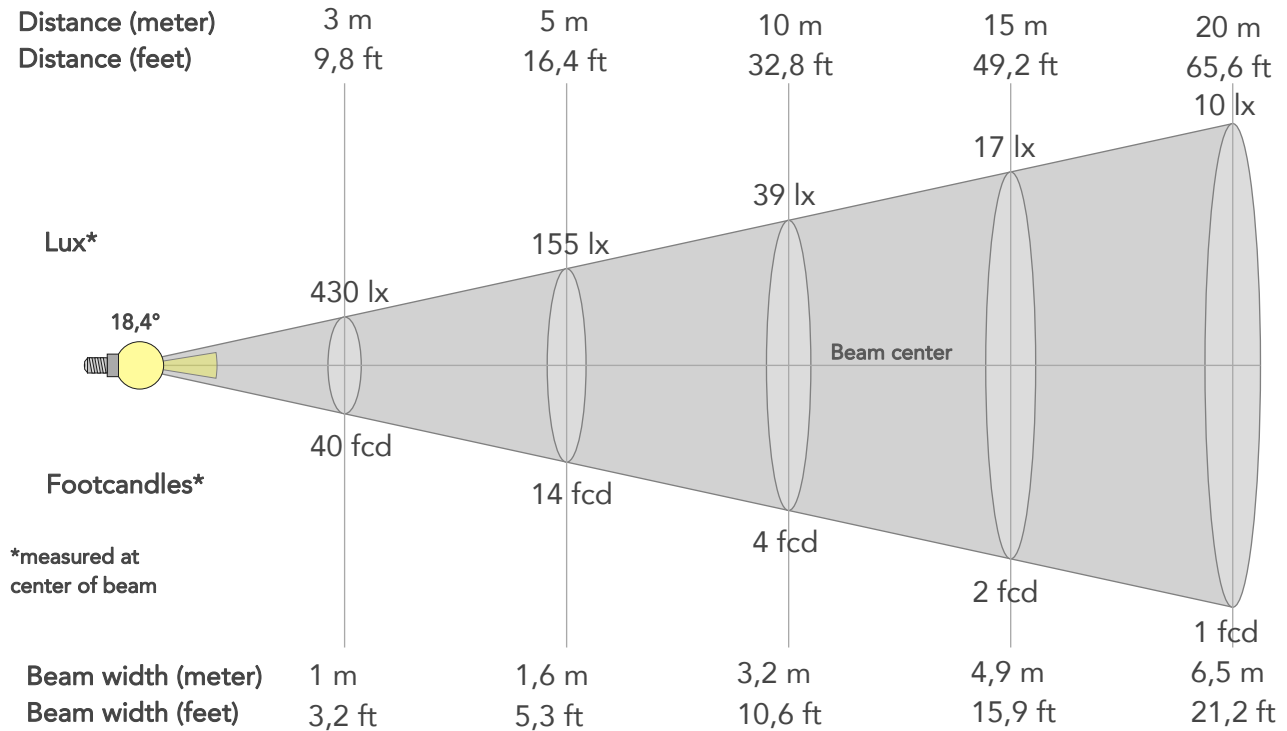
Rg 103,7
Gammut index

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



BEAM DETAILS

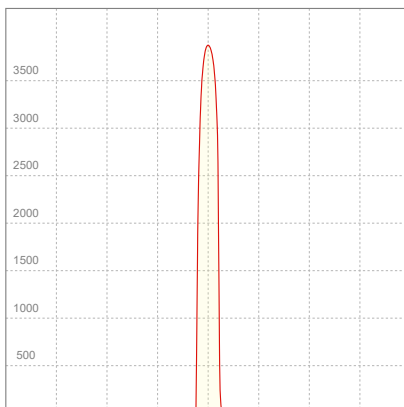
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18,4°	21,1°	22,3°	99,3%	99,1%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	3871lx	968lx	430lx	242lx	155lx	69lx	39lx	17lx	10lx	6lx	4lx	2lx	2lx
Footcand.	360fcd	90fcd	40fcd	22fcd	14fcd	6fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	1m	1,3m	1,6m	2,4m	3,2m	4,9m	6,5m	8,1m	9,7m	13m	16,2m
Beam wid.	1,1ft	2,1ft	3,2ft	4,2ft	5,3ft	8ft	10,6ft	15,9ft	21,2ft	26,6ft	31,9ft	42,5ft	53,1ft

LINEAR DISTRIBUTION DIAGRAM

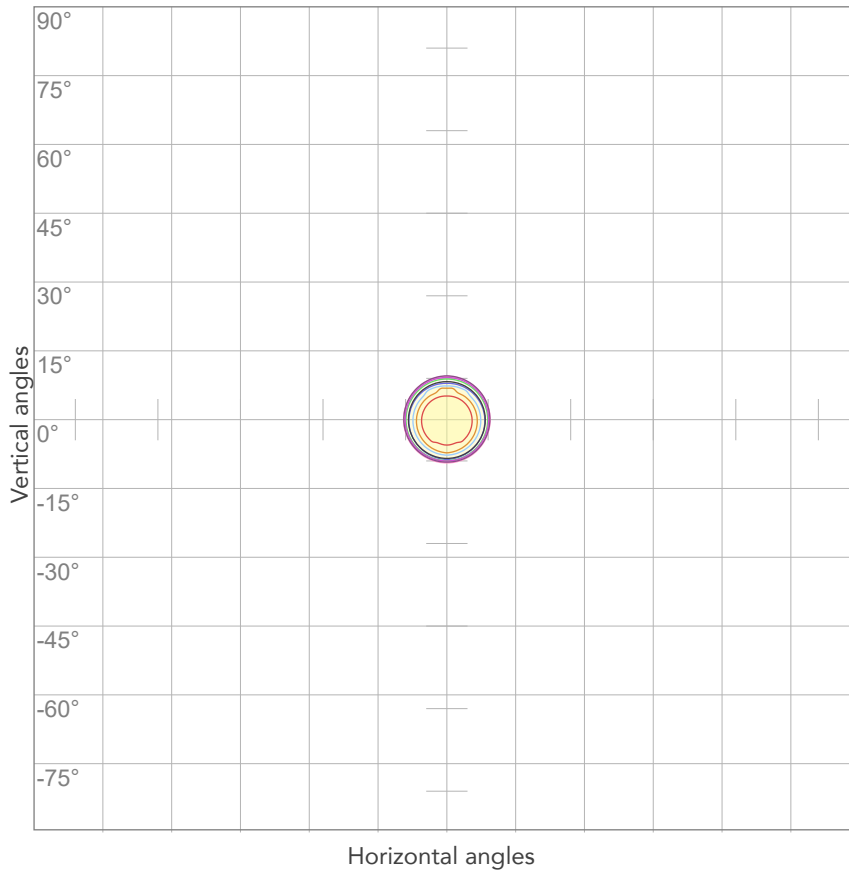


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,112A	23,2W	0,91	13lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



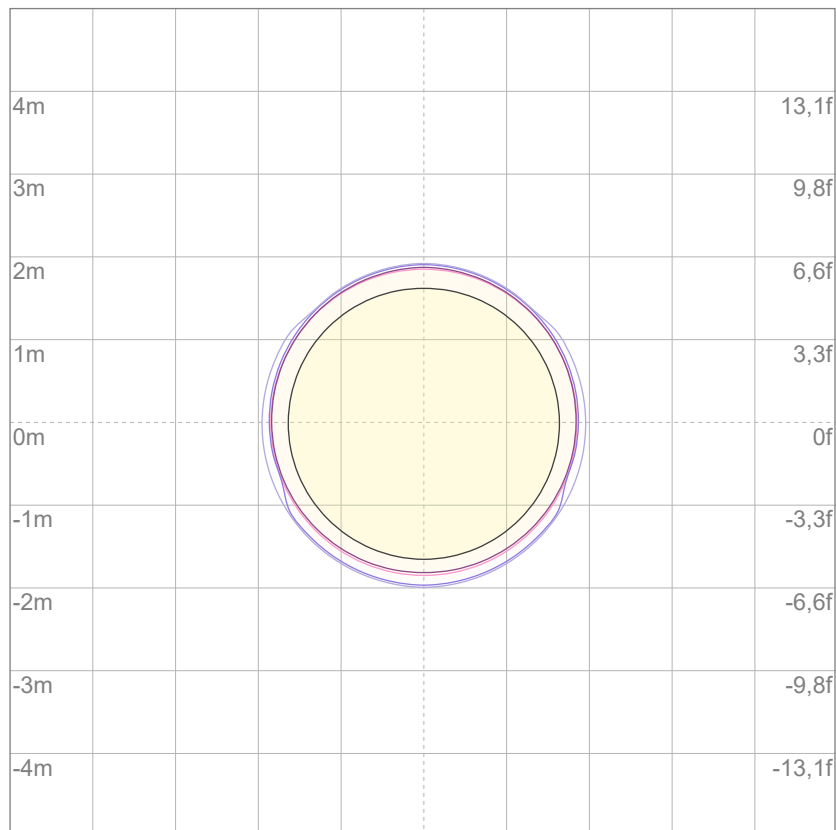
10%	387 cd
20%	774 cd
30%	1161 cd
40%	1548 cd
50%	1935 cd
60%	2322 cd
70%	2709 cd
80%	3097 cd

Conditions:

Number of c-planes: 2

Candela at center: 3871 cd

ISO LUX DIAGRAM



3%	1,16 lx
5%	1,94 lx
10%	3,87 lx
30%	11,6 lx
50%	19,4 lx

Conditions:

Number of c-planes: 2

Lux at center: 38,7 lx

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



Total lumen output:

313 lm

Peak candela output:

13782 cd

Light quality:

CRI: 95,8

Color temperature:

2903 K

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 1020 Min Zoom

Target:

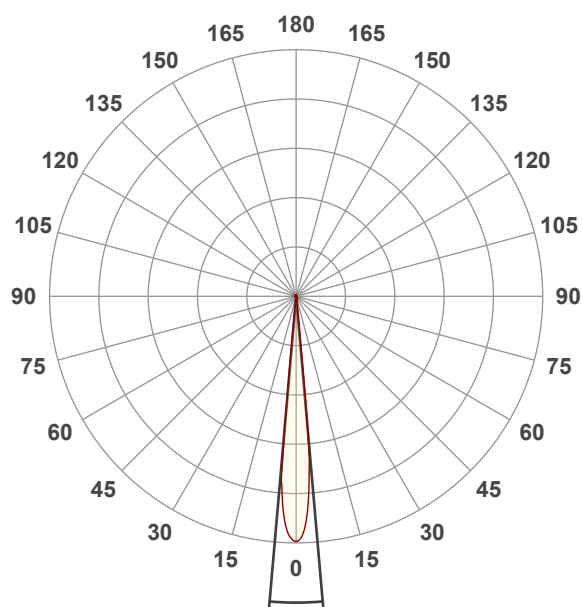
2800K

Operator:

Giacomo Matteo

Date and time:

14/06/2024 10:36:08

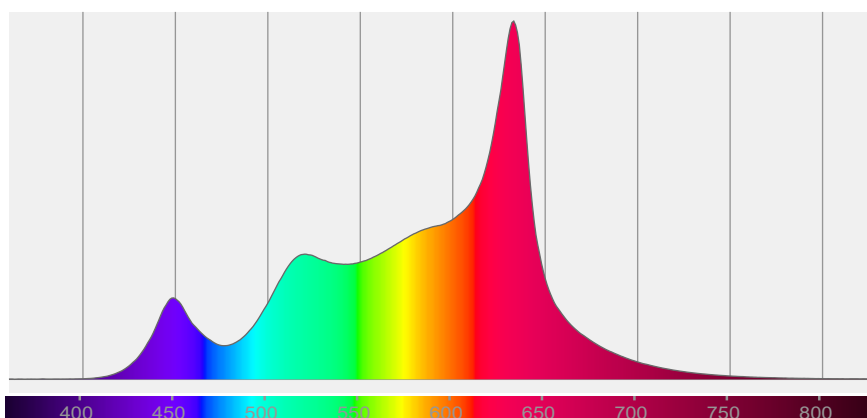


Beam angle 50%: 9,9°

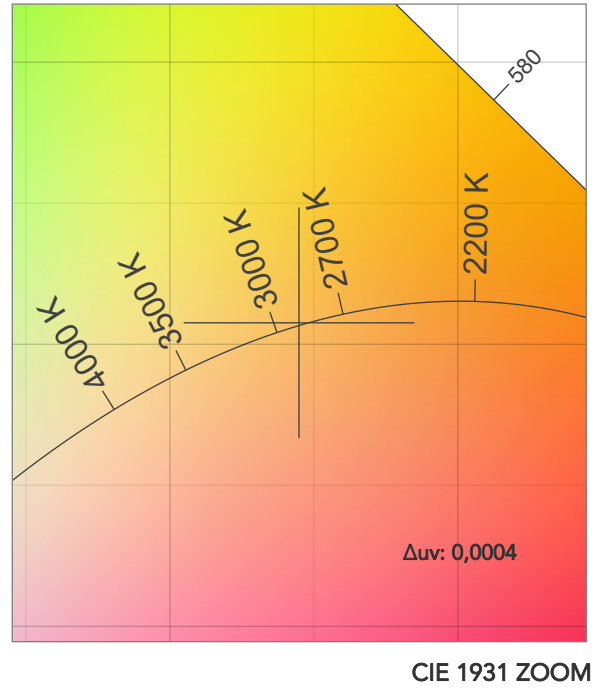
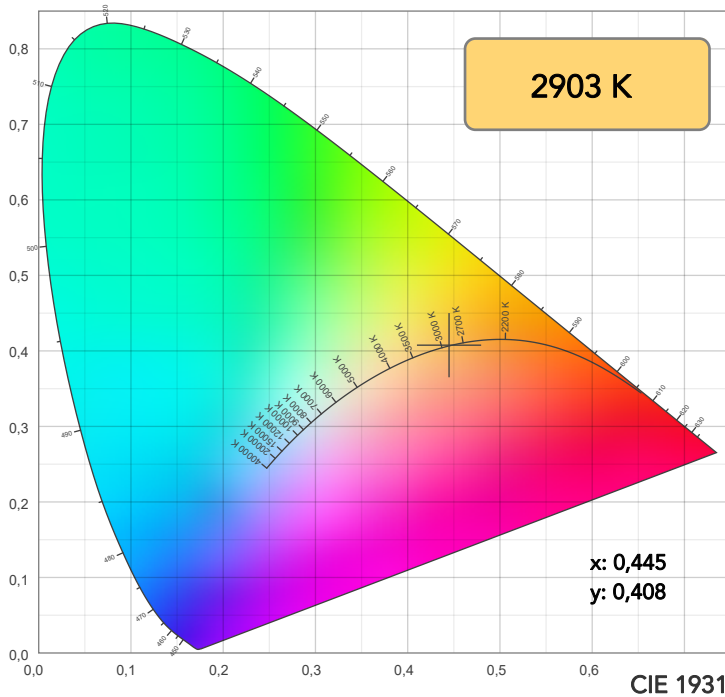
Field angle 10%: 11,2°

Cut off angle 2.5%: 11,5°

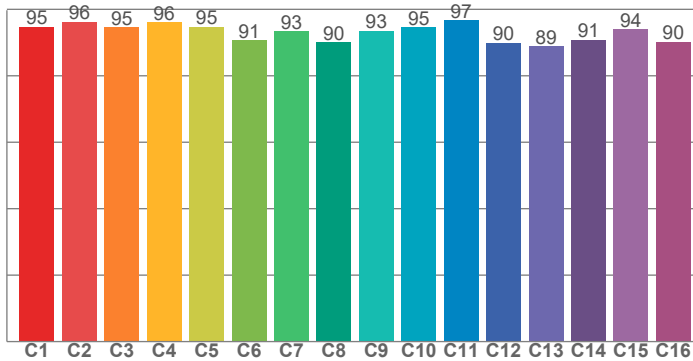
Spectra



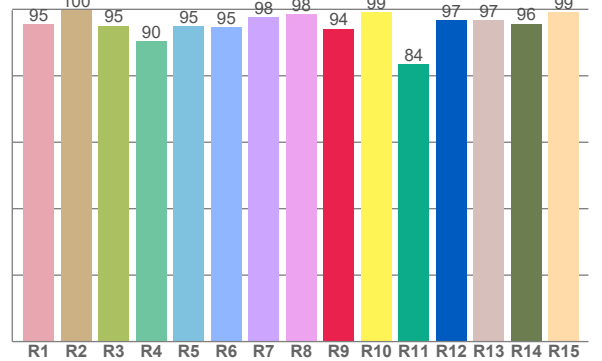
COLOR DETAILS



TM30: 93,6



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	99,6	95,0	90,4	95,0	94,6	97,6	98,5	94,2	99,2	83,5	96,8	96,6	95,6	99,0

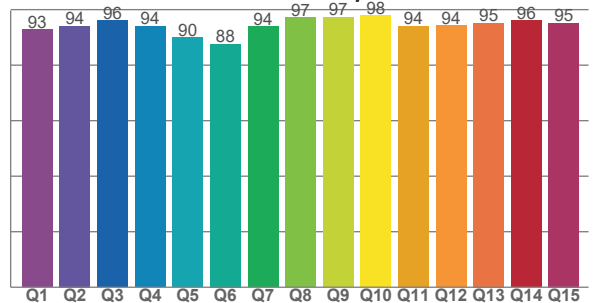
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,7	96,3	94,6	96,1	94,8	90,7	93,3	90,1	93,4	94,6	96,7	89,9	88,8	90,8	94,0	90,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,8	94,2	96,1	94,0	89,9	87,6	93,8	97,1	97,2	97,8	94,1	94,3	95,1	96,1	95,1

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
2903 K	95,8	94,2	93,6	103,7	93,5	85	0,445	0,408	0,0004

TM30 DETAILS

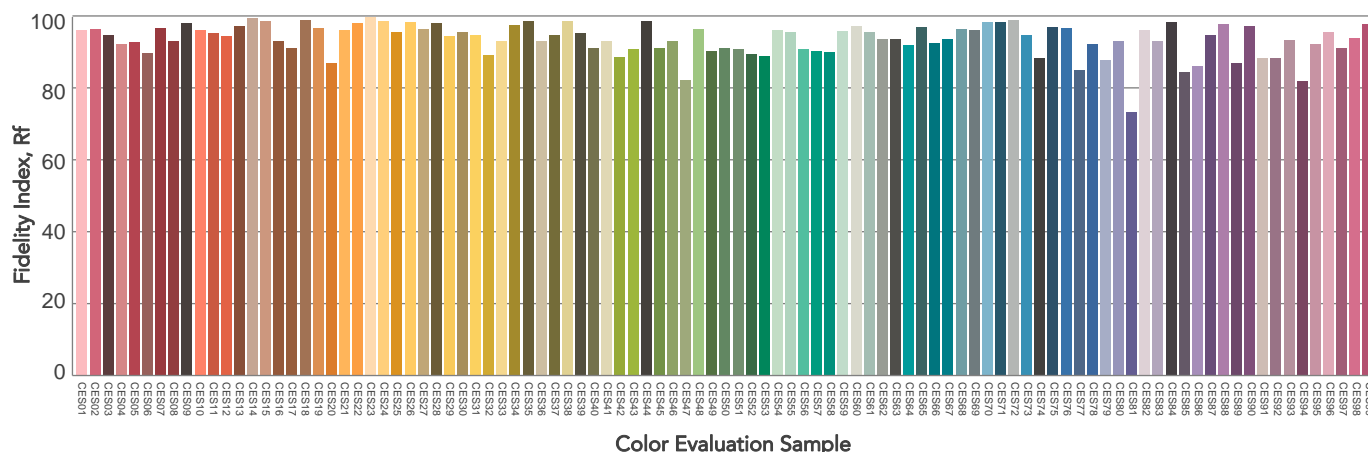
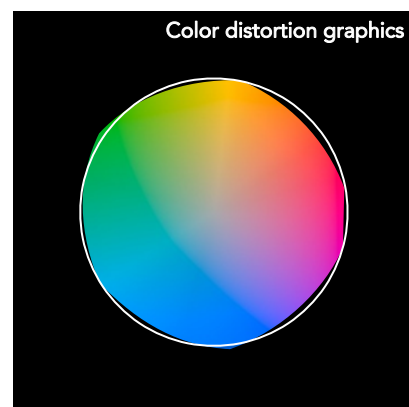
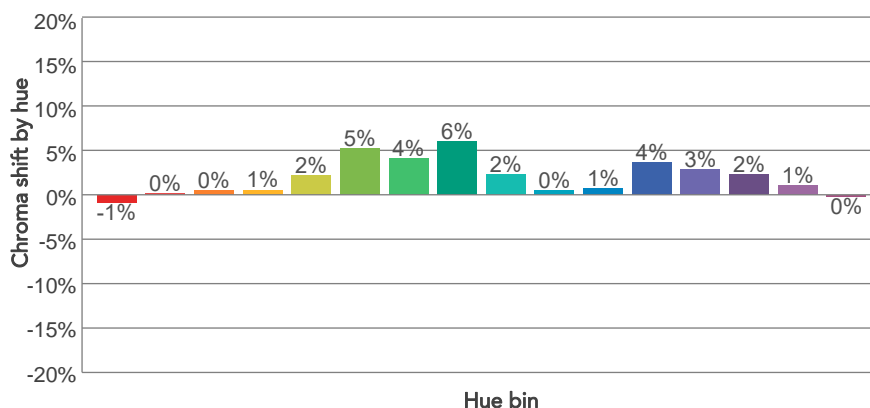
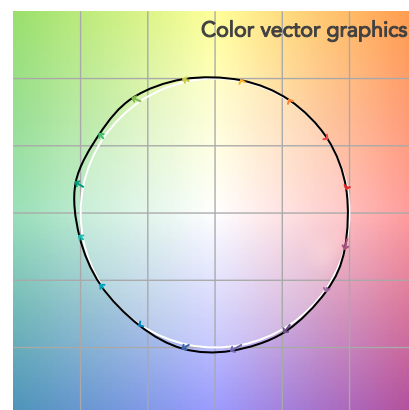
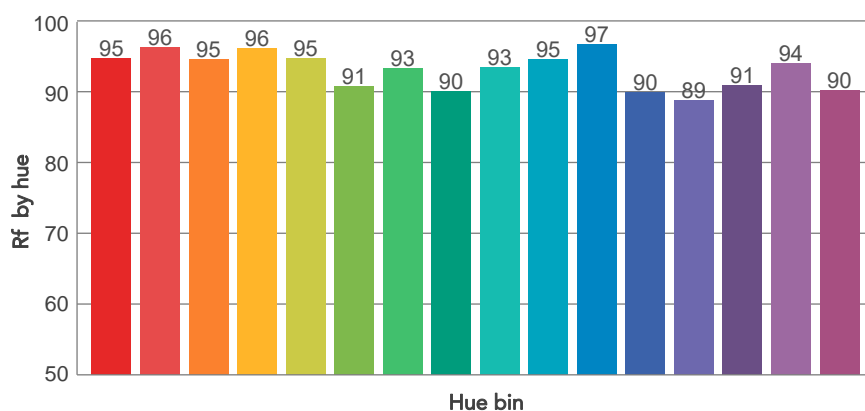
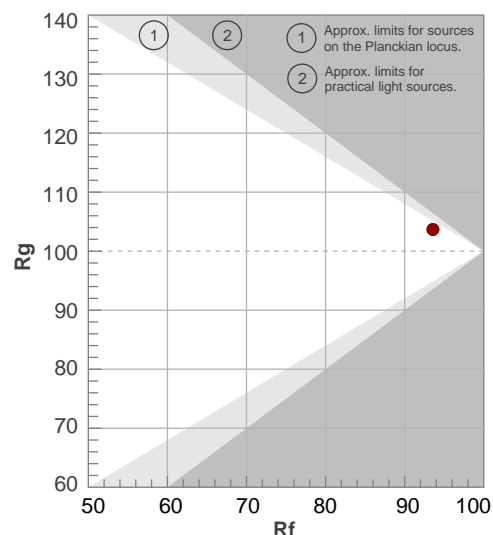
Rf 93,6

Fidelity index Rf

Rg 103,7

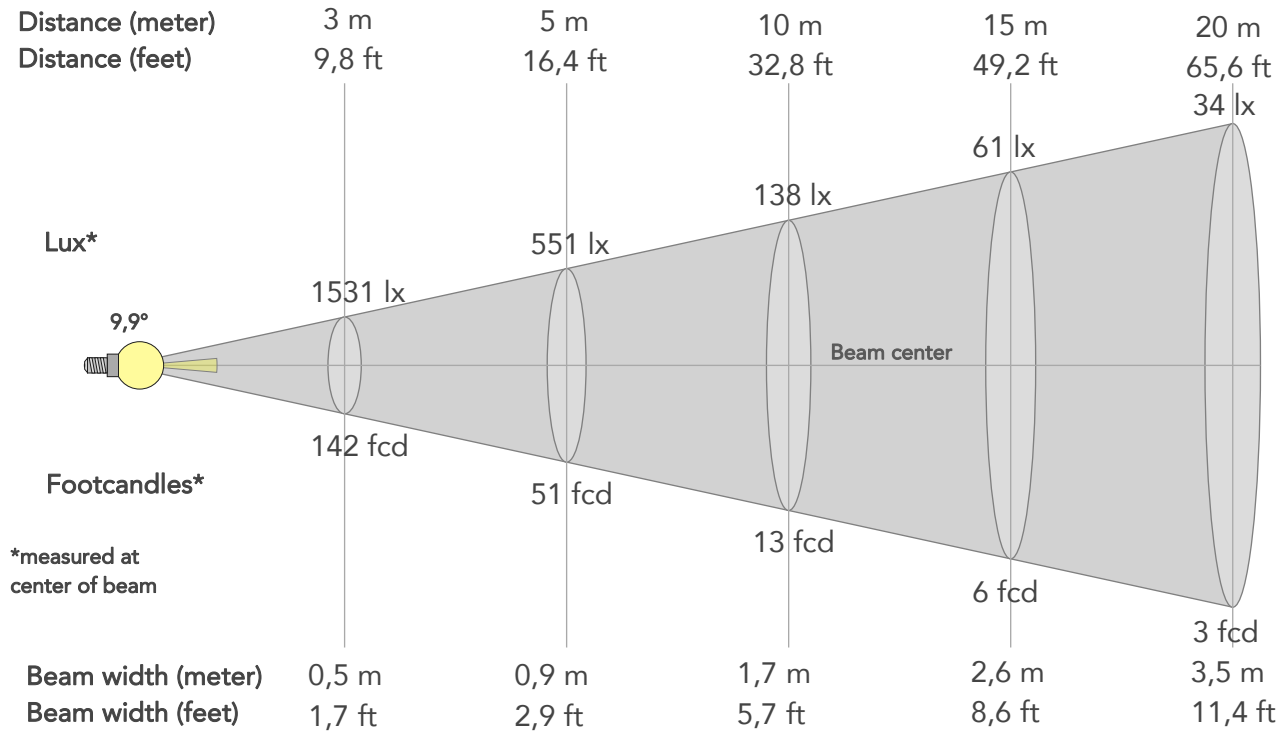
Gammut index

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



BEAM DETAILS

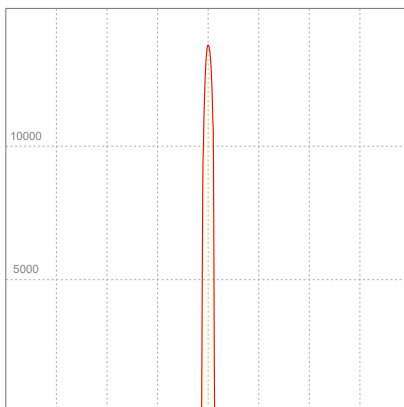
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
9,9°	11,2°	11,5°	98,7%	98,0%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	13779lx	3445lx	1531lx	861lx	551lx	245lx	138lx	61lx	34lx	22lx	15lx	9lx	6lx
Footcand.	1280fcd	320fcd	142fcd	80fcd	51fcd	23fcd	13fcd	6fcd	3fcd	2fcd	1fcd	1fcd	1fcd
Beam wid.	0,2m	0,3m	0,5m	0,7m	0,9m	1,3m	1,7m	2,6m	3,5m	4,4m	5,2m	7m	8,7m
Beam wid.	0,6ft	1,1ft	1,7ft	2,3ft	2,9ft	4,3ft	5,7ft	8,6ft	11,4ft	14,3ft	17,1ft	22,8ft	28,5ft

LINEAR DISTRIBUTION DIAGRAM

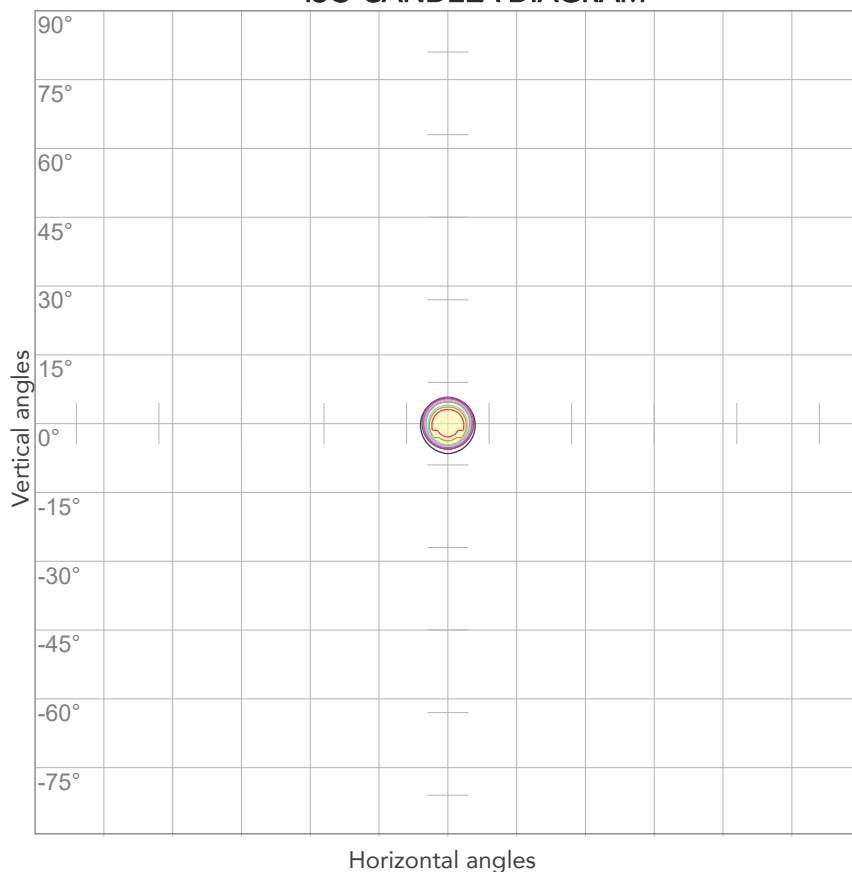


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,112A	23,2W	0,91	13lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



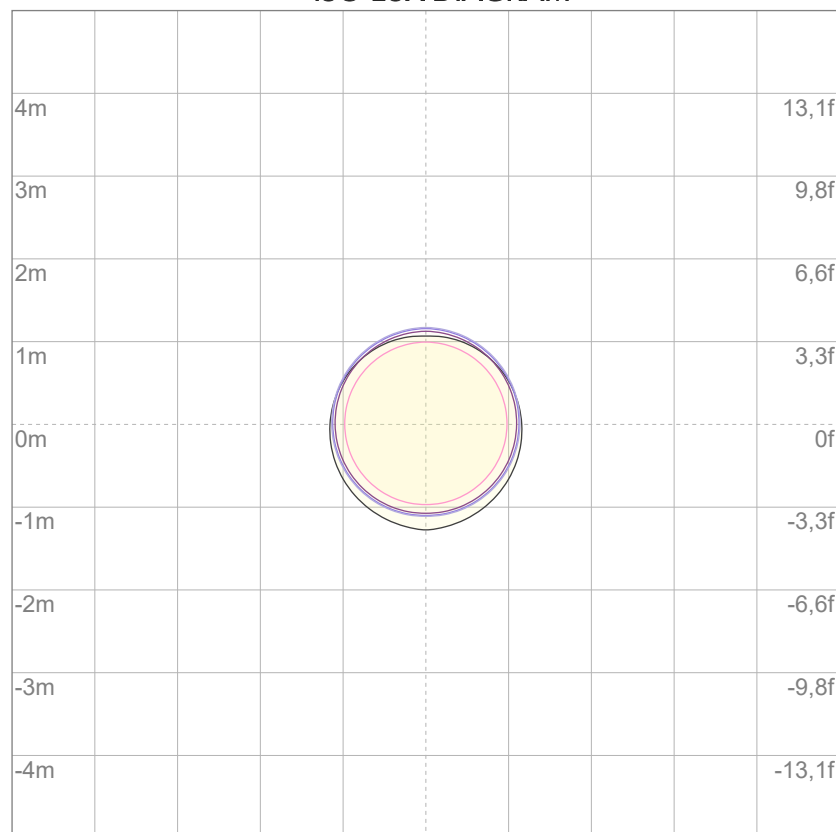
10%	1378 cd
20%	2756 cd
30%	4134 cd
40%	5512 cd
50%	6890 cd
60%	8268 cd
70%	9646 cd
80%	11023 cd

Conditions:

Number of c-planes: 2

Candela at center: 13779 cd

ISO LUX DIAGRAM



3%	4,13 lx
5%	6,89 lx
10%	13,8 lx
30%	41,3 lx
50%	68,9 lx

Conditions:

Number of c-planes: 2

Lux at center: 138 lx

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



Total lumen output:

302 lm

Peak candela output:

3919 cd

Light quality:

CRI: 95,6

Color temperature:

3194 K

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 1020 Max Zoom

Target:

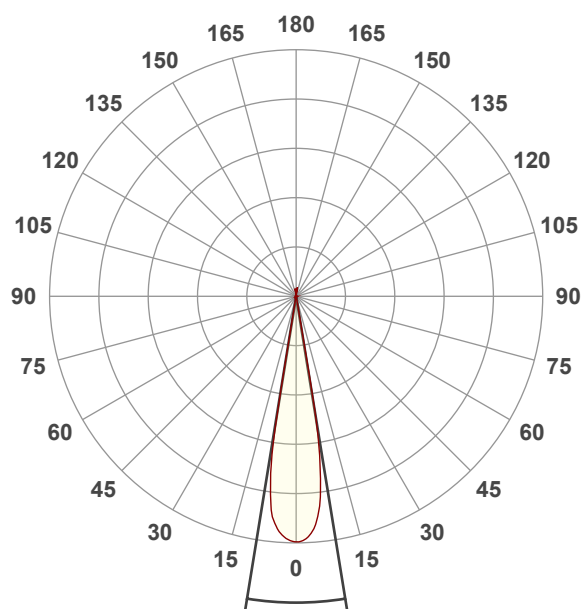
3200K

Operator:

Giacomo Matteo

Date and time:

14/06/2024 11:10:29

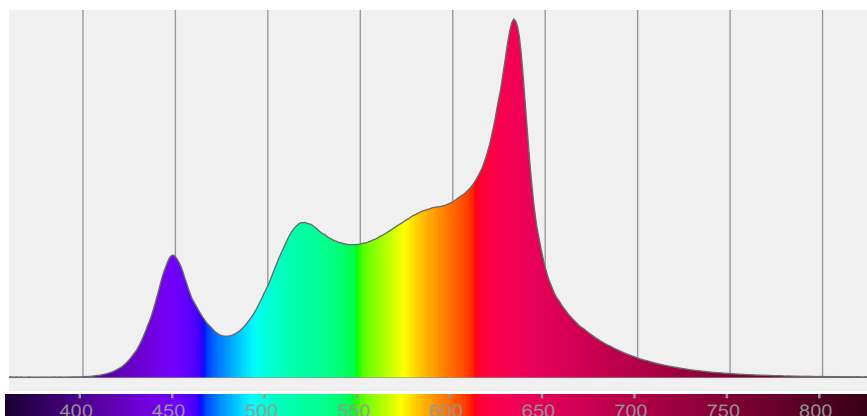


Beam angle 50%: 18,4°

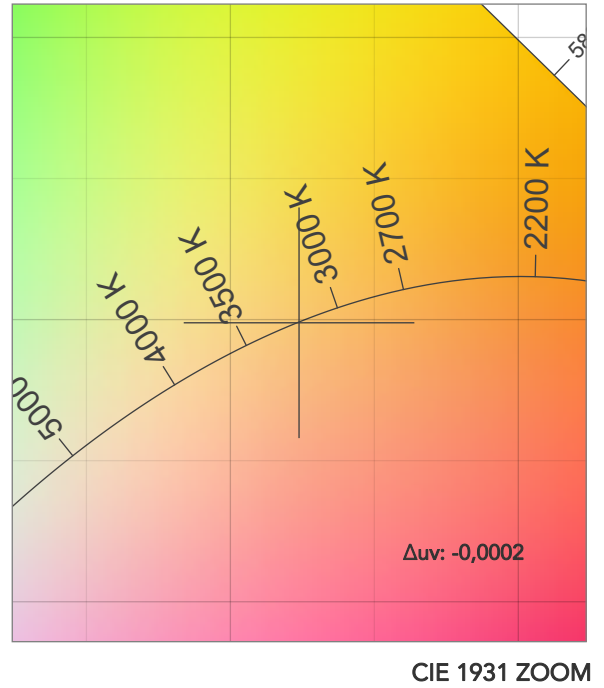
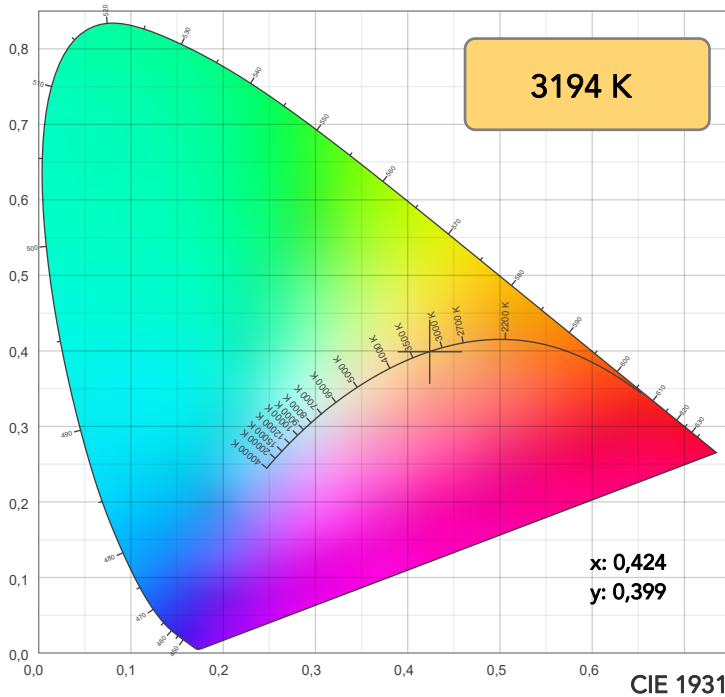
Field angle 10%: 21,4°

Cut off angle 2.5%: 21,9°

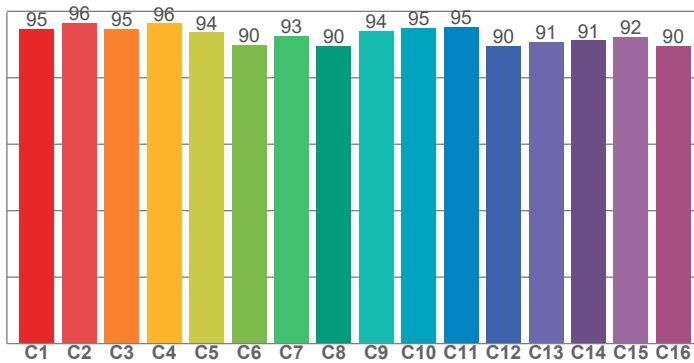
Spectra



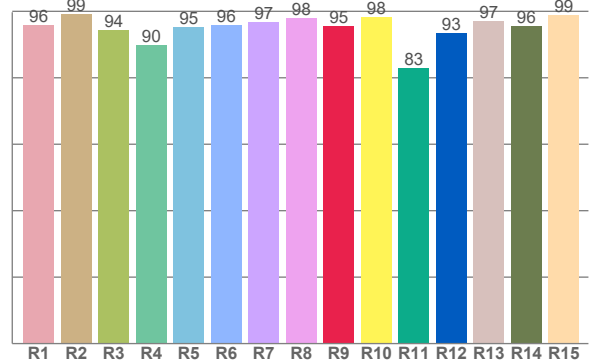
COLOR DETAILS



TM30: 93,4



CRI: 95,6 (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
95,7	99,1	94,4	89,7	95,3	95,9	96,8	98,0	95,4	98,1	82,9	93,4	97,0	95,5	98,9

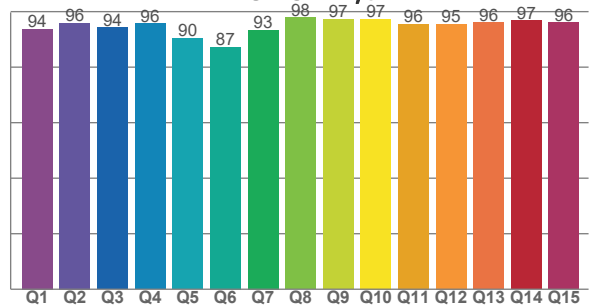
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,8	96,5	94,7	96,3	93,7	89,8	92,6	89,5	94,0	95,0	95,2	89,7	90,9	91,3	92,4	89,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,8	96,0	94,3	95,7	90,4	87,3	93,3	97,9	97,3	97,4	95,5	95,5	96,1	96,7	96,0

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
3194 K	95,6	95,4	93,4	104,6	94,0	86	0,424	0,399	-0,0002

TM30 DETAILS

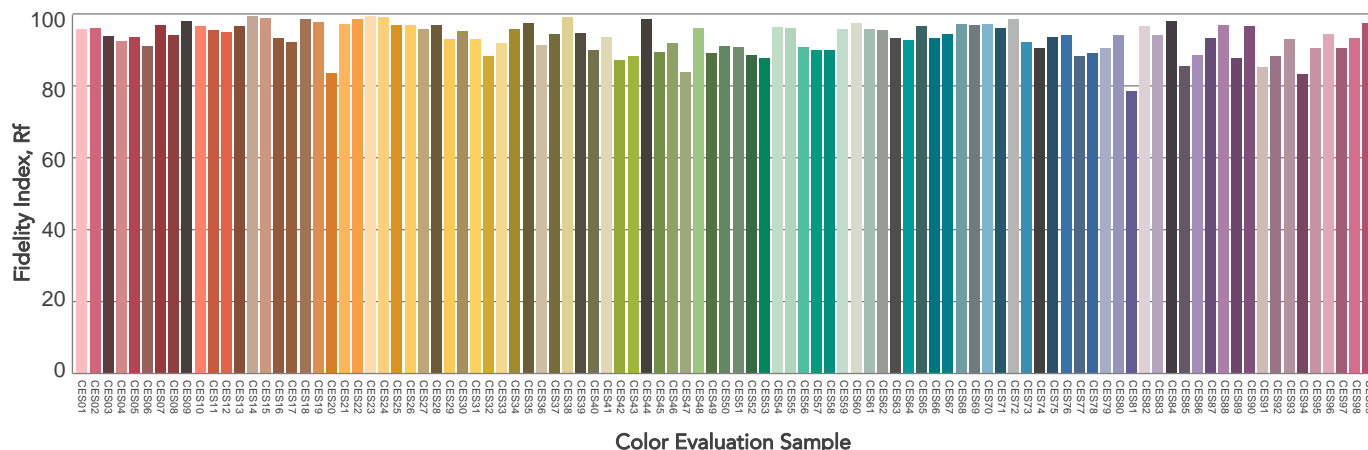
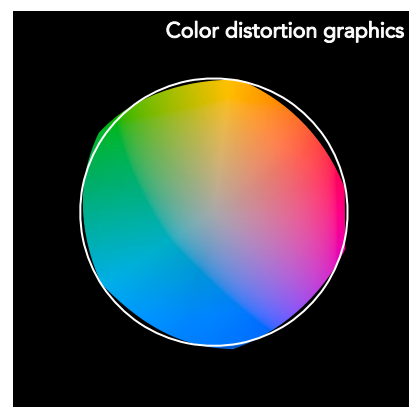
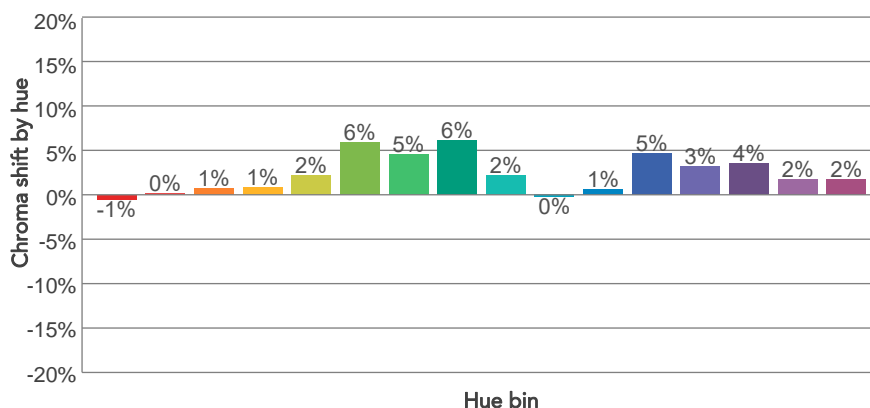
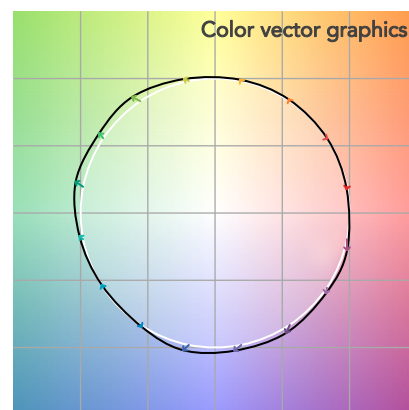
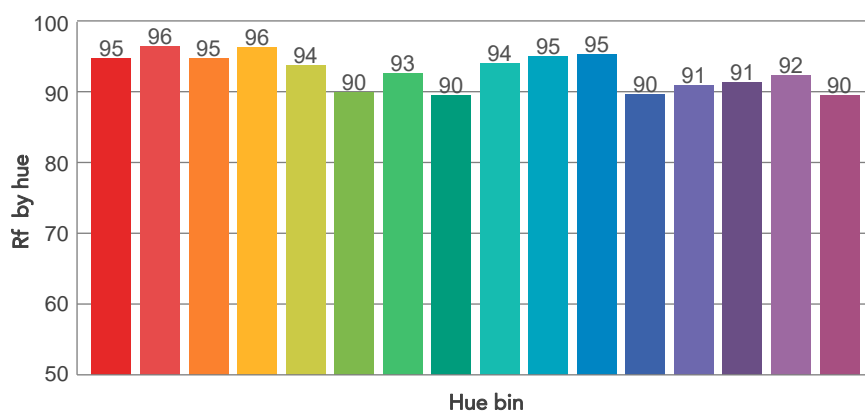
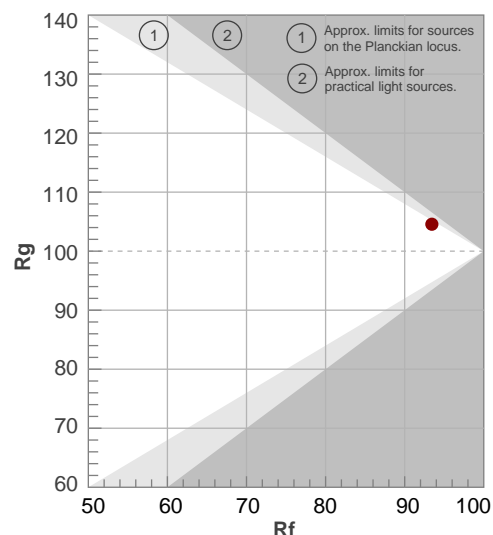
Rf 93,4

Fidelity index Rf

Rg 104,6

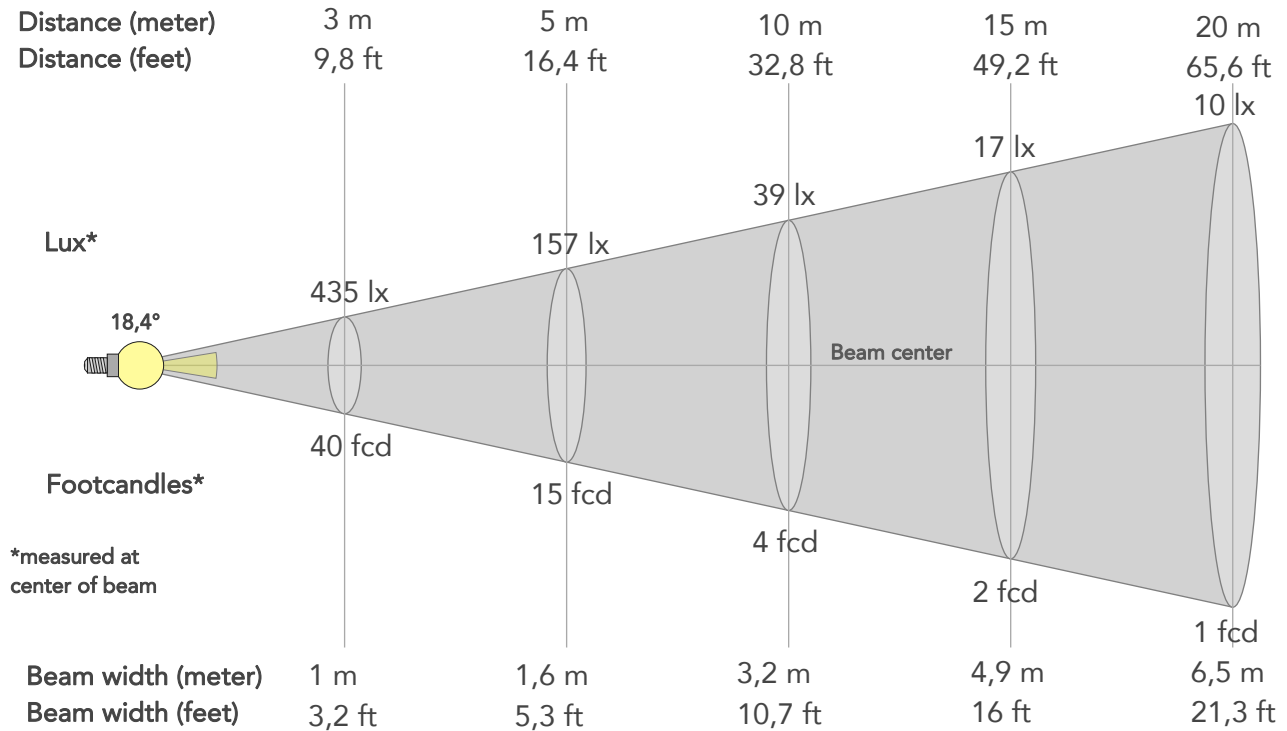
Gammut index

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



BEAM DETAILS

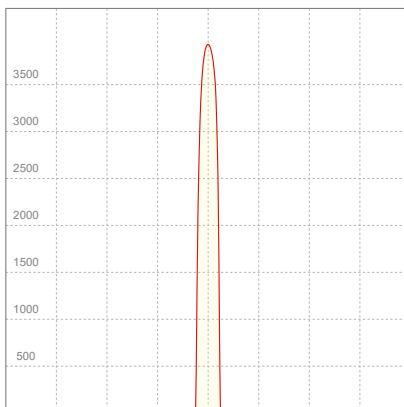
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18,4°	21,4°	21,9°	99,4%	99,1%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	3919lx	980lx	435lx	245lx	157lx	70lx	39lx	17lx	10lx	6lx	4lx	2lx	2lx
Footcand.	364fcd	91fcd	40fcd	23fcd	15fcd	6fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	1m	1,3m	1,6m	2,4m	3,2m	4,9m	6,5m	8,1m	9,7m	13m	16,2m
Beam wid.	1,1ft	2,1ft	3,2ft	4,3ft	5,3ft	8ft	10,7ft	16ft	21,3ft	26,6ft	32ft	42,6ft	53,3ft

LINEAR DISTRIBUTION DIAGRAM

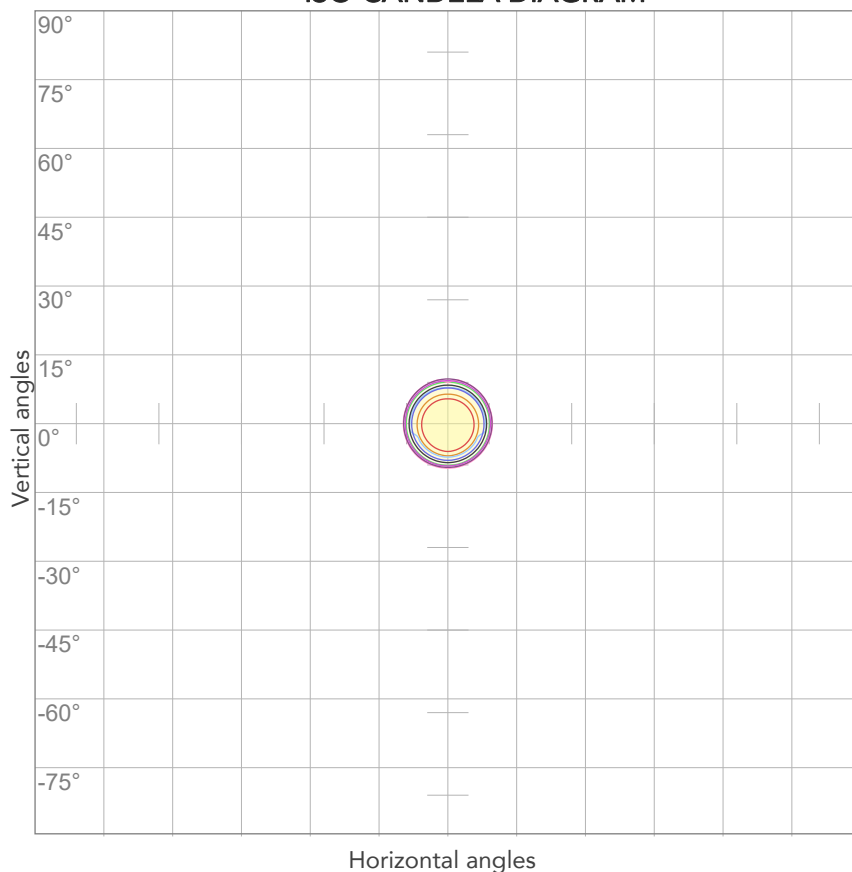


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,113A	23,5W	0,91	13lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



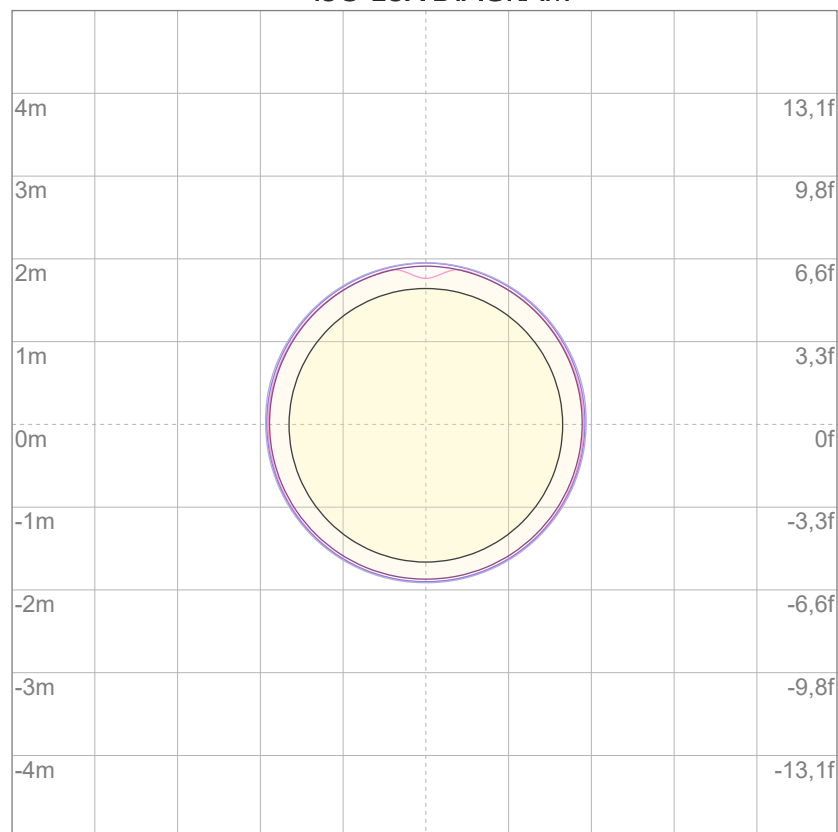
10%	392 cd
20%	784 cd
30%	1176 cd
40%	1568 cd
50%	1959 cd
60%	2351 cd
70%	2743 cd
80%	3135 cd

Conditions:

Number of c-planes: 2

Candela at center: 3919 cd

ISO LUX DIAGRAM



3%	1,18 lx
5%	1,96 lx
10%	3,92 lx
30%	11,8 lx
50%	19,6 lx

Conditions:

Number of c-planes: 2

Lux at center: 39,2 lx

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



Total lumen output:

319 lm

Peak candela output:

13993 cd

Light quality:

CRI: 95,6

Color temperature:

3200 K

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 1020 Min Zoom

Target:

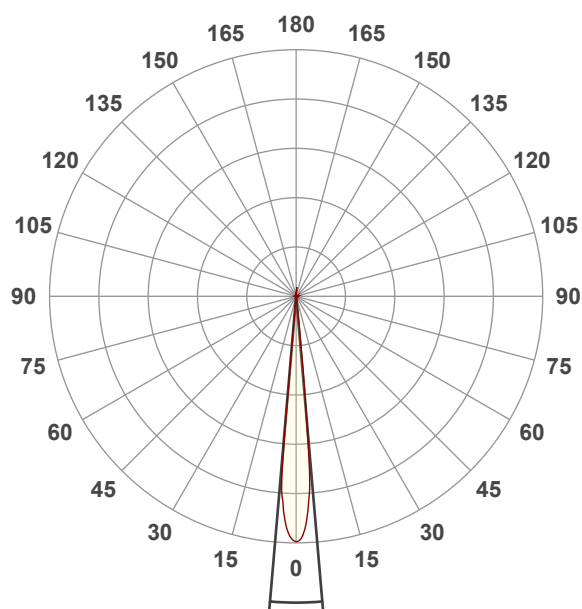
3200K

Operator:

Giacomo Matteo

Date and time:

14/06/2024 10:40:07

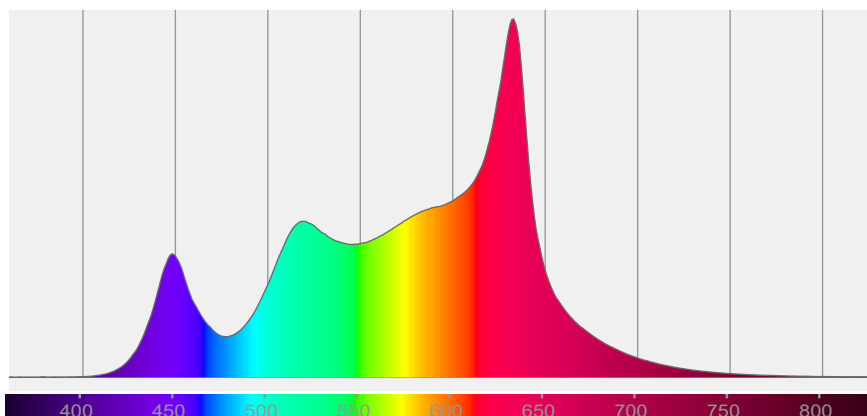


Beam angle 50%: 9,8°

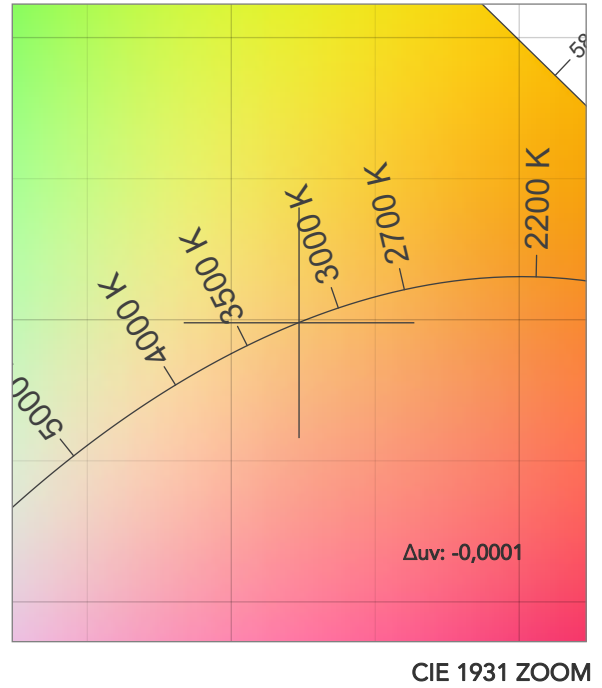
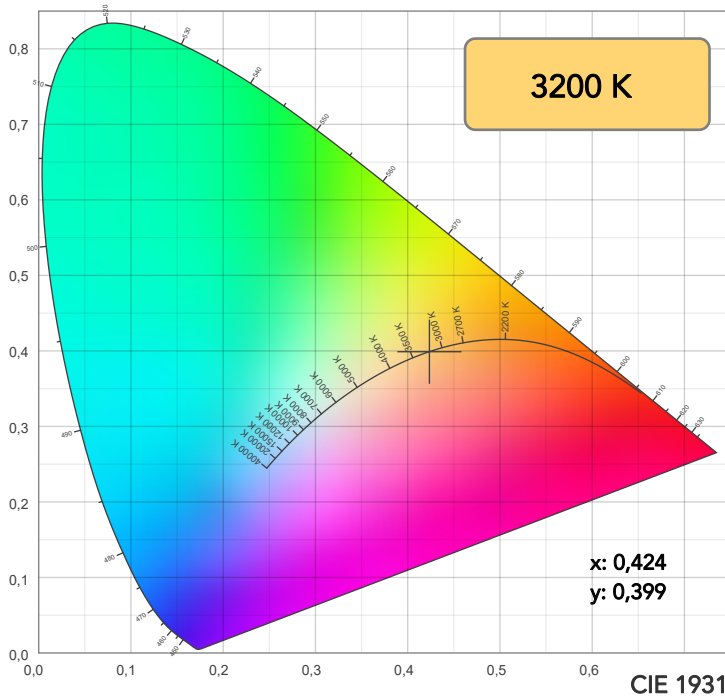
Field angle 10%: 11,6°

Cut off angle 2.5%: 12,1°

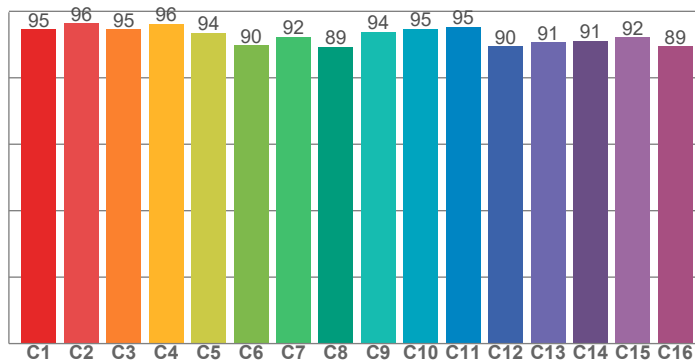
Spectra



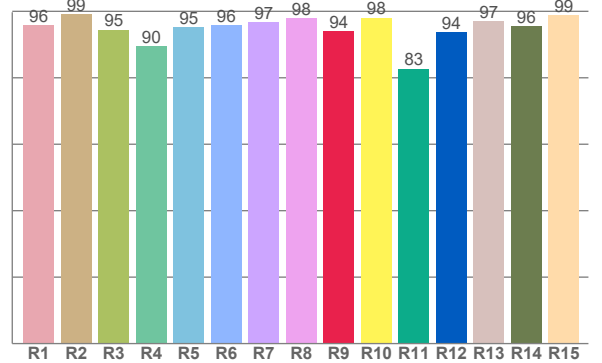
COLOR DETAILS



TM30: 93,3



CRI: 95,6 (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
95,8	99,0	94,5	89,6	95,3	95,8	96,7	97,9	94,0	98,1	82,7	93,7	97,0	95,6	98,8

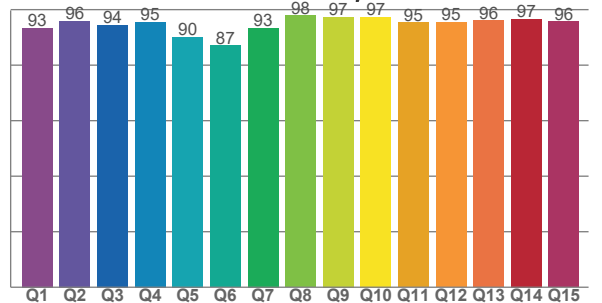
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,6	96,4	94,6	96,2	93,6	89,7	92,4	89,3	93,9	94,7	95,3	89,5	90,6	91,1	92,2	89,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,4	95,9	94,4	95,5	90,1	87,0	93,3	97,9	97,3	97,4	95,4	95,4	96,1	96,6	95,6

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
3200 K	95,6	94,0	93,3	104,6	93,9	85	0,424	0,399	-0,0001

TM30 DETAILS

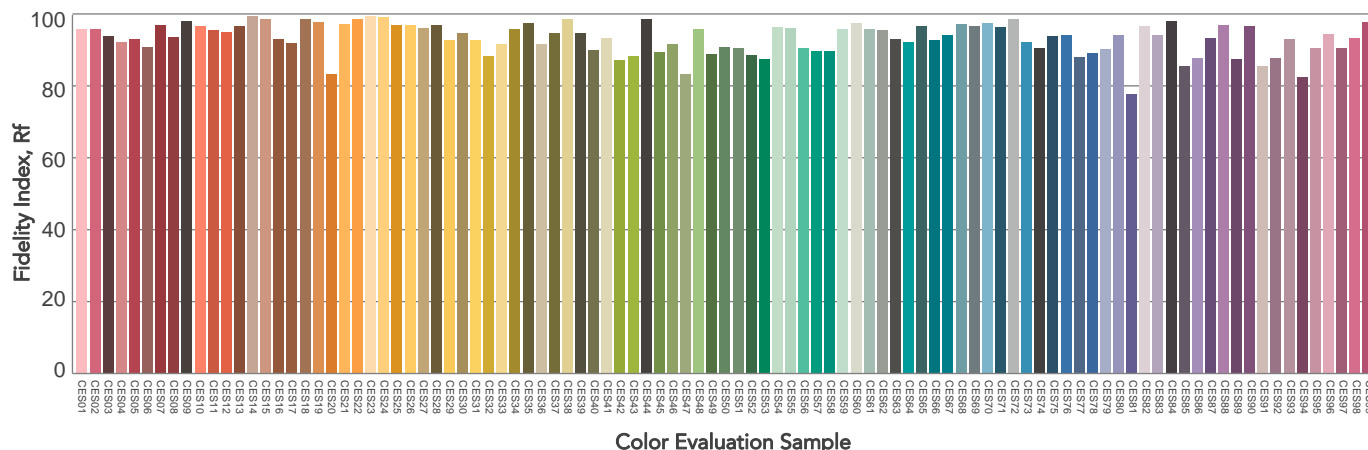
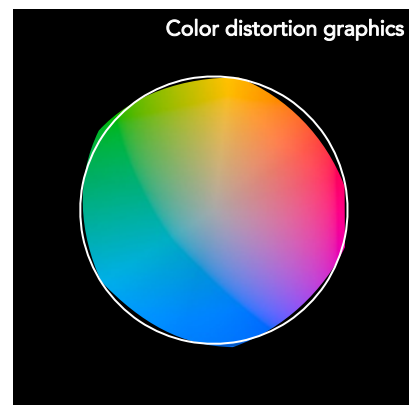
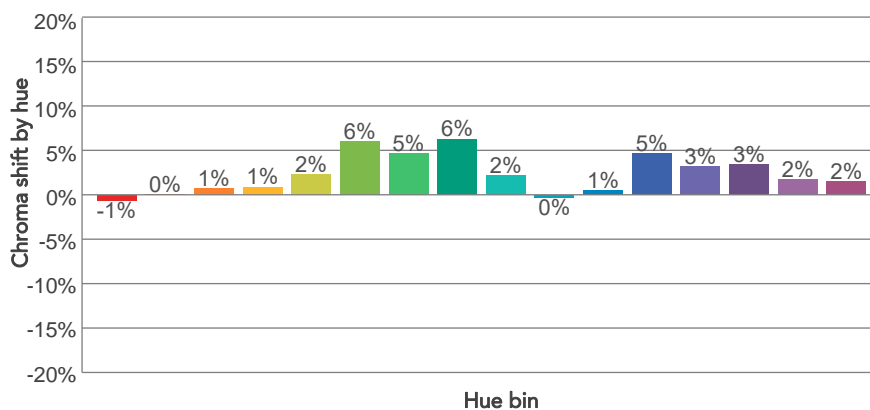
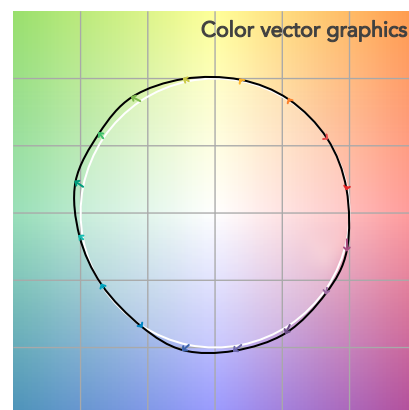
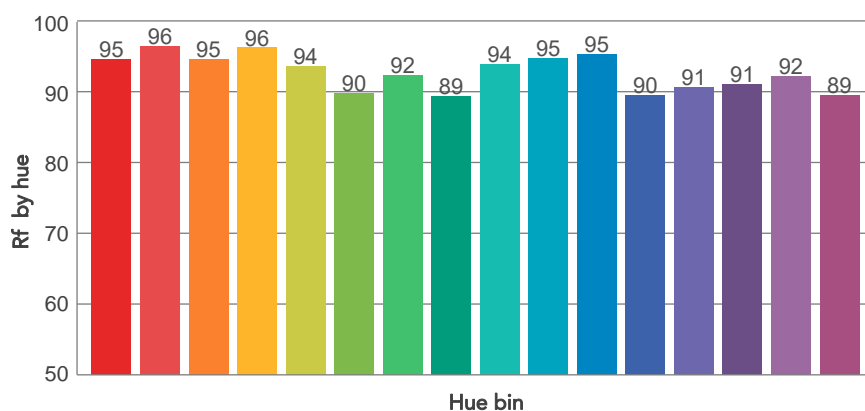
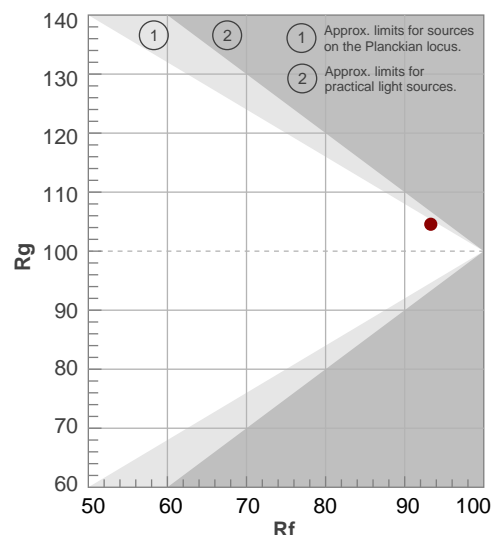
Rf 93,3

Fidelity index Rf

Rg 104,6

Gammut index

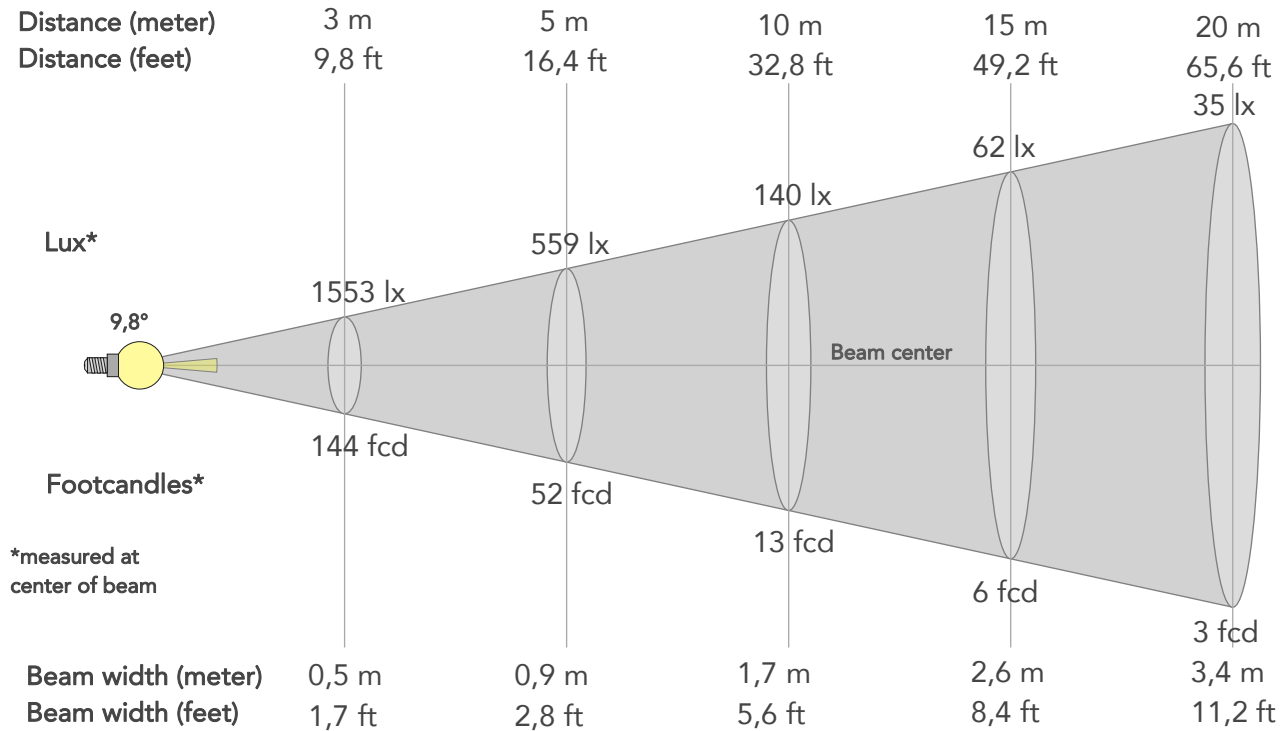
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	-1%	-2%
2	96	0%	0%
3	95	1%	1%
4	96	1%	1%
5	94	2%	3%
6	90	6%	3%
7	92	5%	-2%
8	89	6%	-3%
9	94	2%	-3%
10	95	0%	-3%
11	95	1%	2%
12	90	5%	-3%
13	91	3%	-6%
14	91	3%	-6%
15	92	2%	-4%
16	89	2%	-8%



BEAM DETAILS



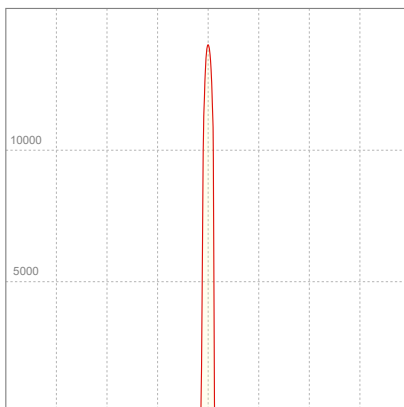
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
9,8°	11,6°	12,1°	98,6%	97,9%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	13975lx	3494lx	1553lx	873lx	559lx	248lx	140lx	62lx	35lx	22lx	16lx	9lx	6lx
Footcand.	1298fcd	325fcd	144fcd	81fcd	52fcd	23fcd	13fcd	6fcd	3fcd	2fcd	1fcd	1fcd	1fcd
Beam wid.	0,2m	0,3m	0,5m	0,7m	0,9m	1,3m	1,7m	2,6m	3,4m	4,3m	5,1m	6,9m	8,6m
Beam wid.	0,6ft	1,1ft	1,7ft	2,2ft	2,8ft	4,2ft	5,6ft	8,4ft	11,2ft	14,1ft	16,9ft	22,5ft	28,1ft

LINEAR DISTRIBUTION DIAGRAM

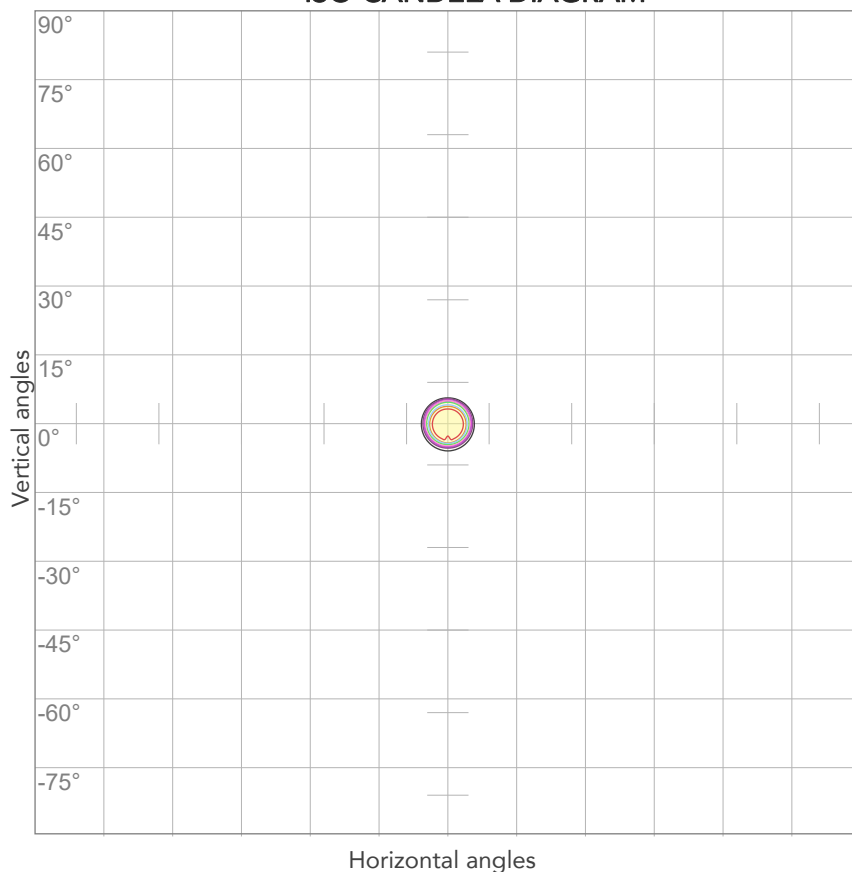


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,113A	23,5W	0,91	14lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



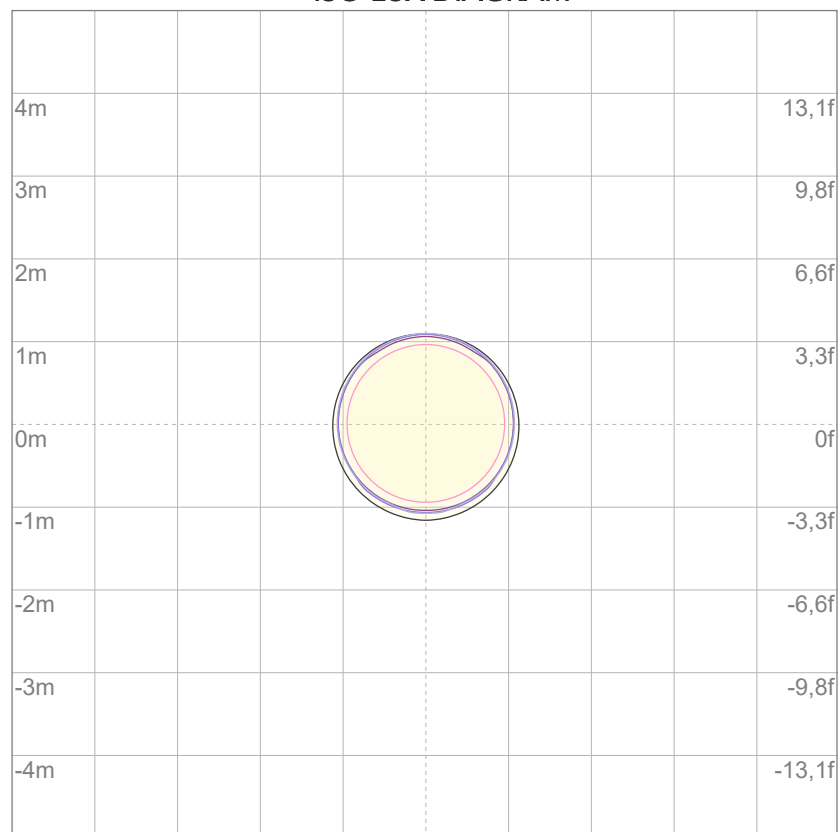
10%	1397 cd
20%	2795 cd
30%	4192 cd
40%	5590 cd
50%	6987 cd
60%	8385 cd
70%	9782 cd
80%	11180 cd

Conditions:

Number of c-planes: 2

Candela at center: 13975 cd

ISO LUX DIAGRAM



3%	4,19 lx
5%	6,99 lx
10%	14,0 lx
30%	41,9 lx
50%	69,9 lx

Conditions:

Number of c-planes: 2

Lux at center: 140 lx

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



Total lumen output:

326 lm

Peak candela output:

4267 cd

Light quality:

CRI: 95,1

Color temperature:

3946 K

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 1020 Max Zoom

Target:

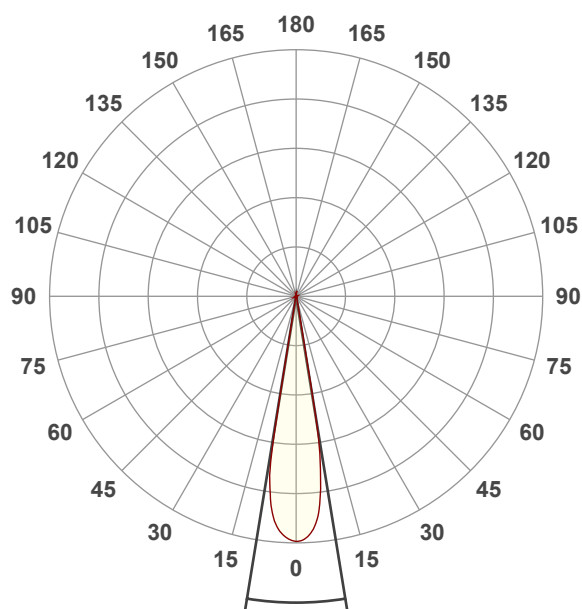
4000K

Operator:

Giacomo Matteo

Date and time:

17/06/2024 09:31:32

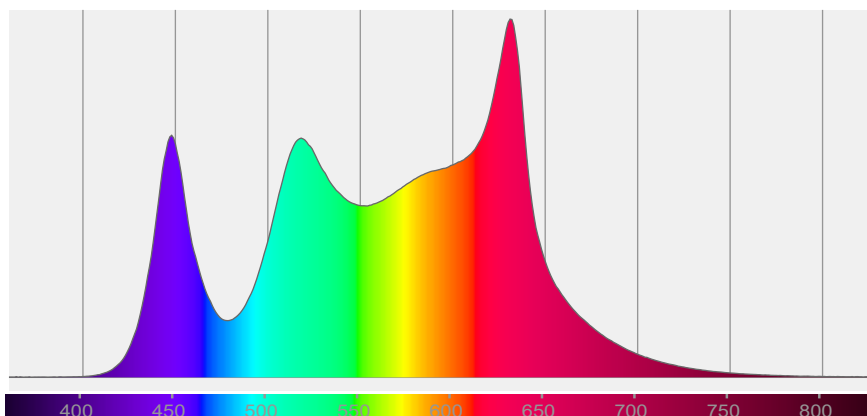


Beam angle 50%: 18,5°

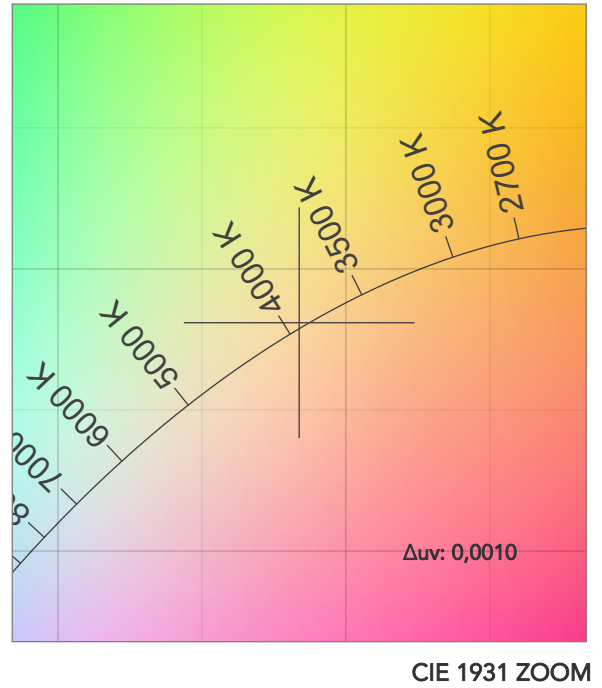
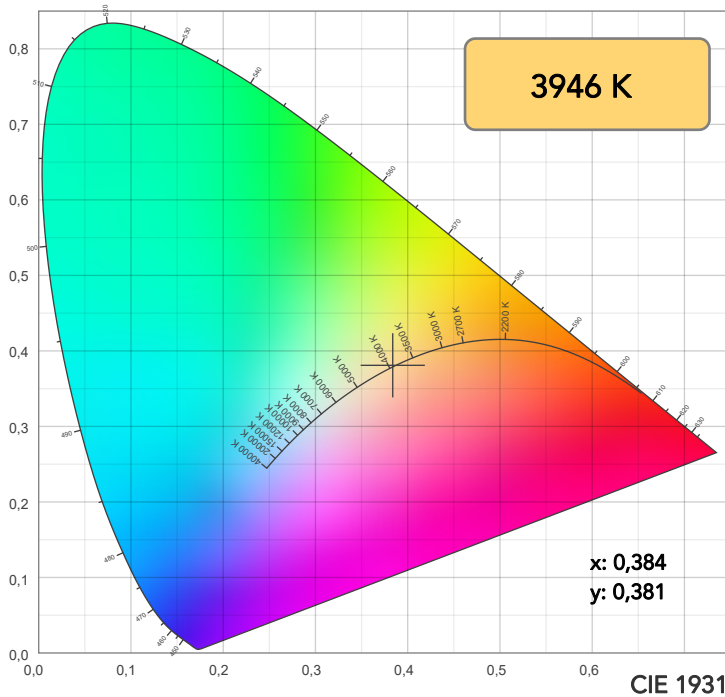
Field angle 10%: 20,7°

Cut off angle 2.5%: 22,9°

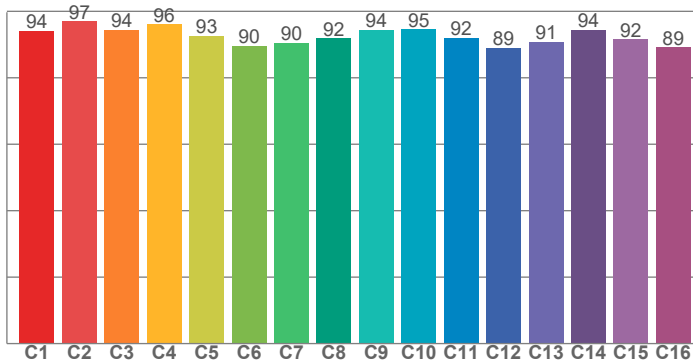
Spectra



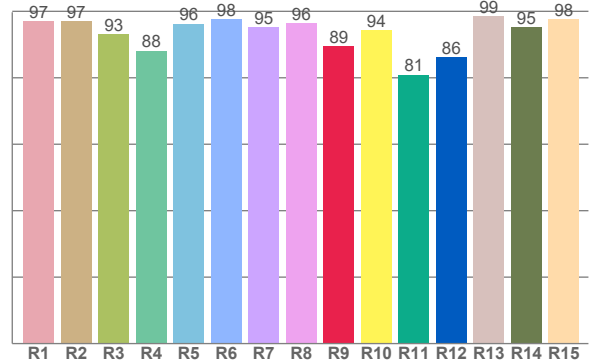
COLOR DETAILS



TM30: 92,9



CRI: 95,1 (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
97,0	97,0	93,1	88,1	96,3	97,5	95,1	96,5	89,5	94,4	80,9	86,1	98,6	95,2	97,6

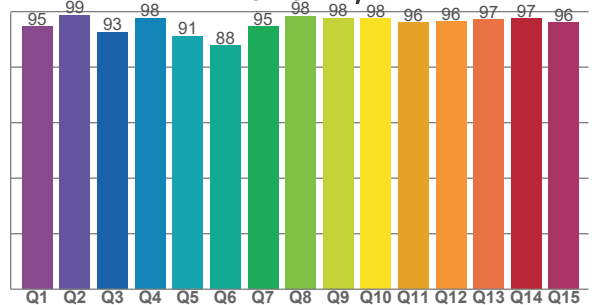
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,7	98,8	92,6	97,6	91,2	87,8	94,6	98,4	97,8	97,5	96,0	96,4	97,1	97,5	96,1

CQS: 94,7



COLOR PARAMETERS

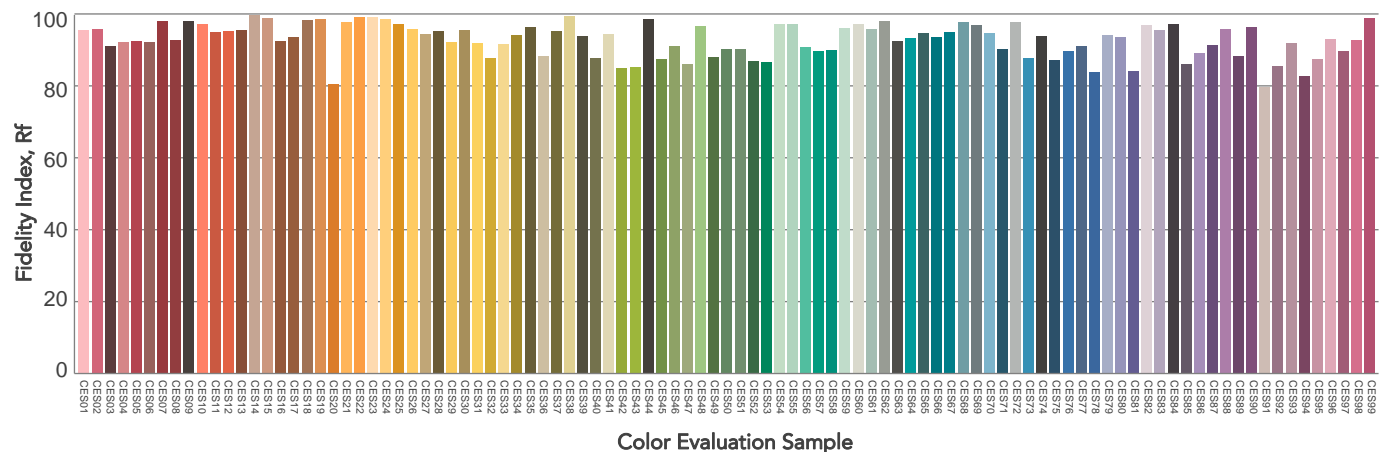
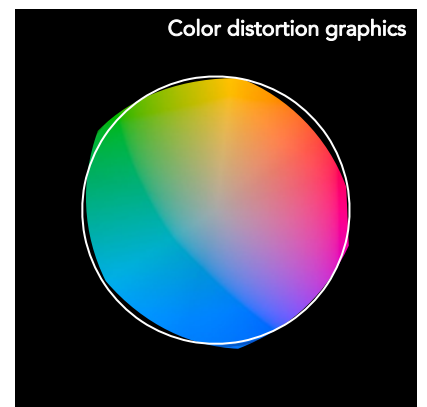
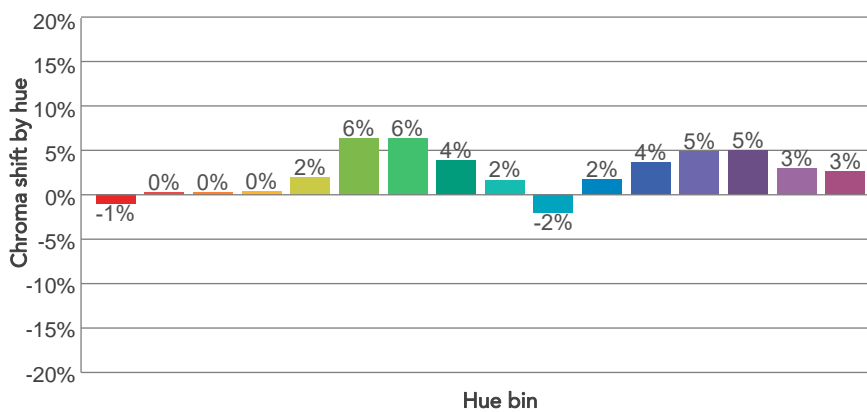
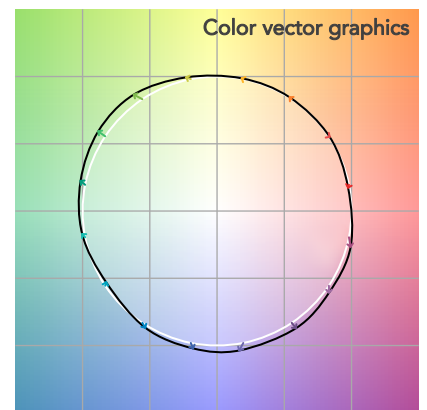
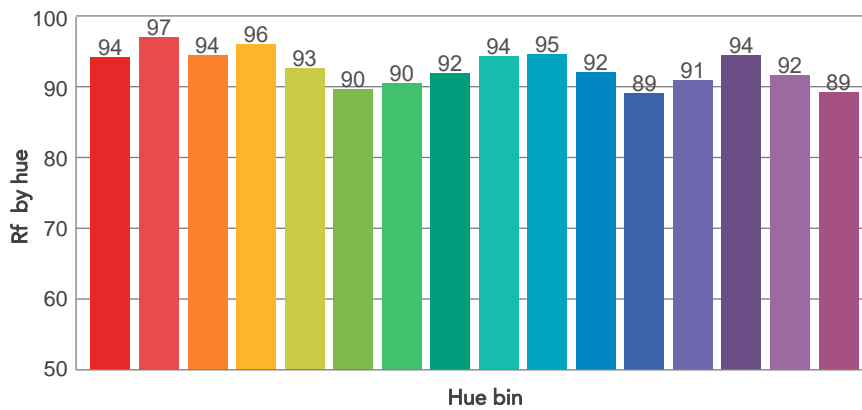
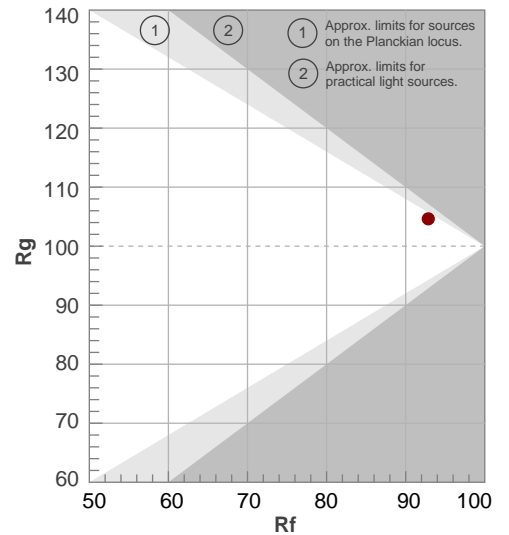
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3946 K	95,1	89,5	92,9	104,6	94,7	83	0,384	0,381	0,0010

TM30 DETAILS

Rf 92,9
Fidelity index Rf

Rg 104,6
Gammut index

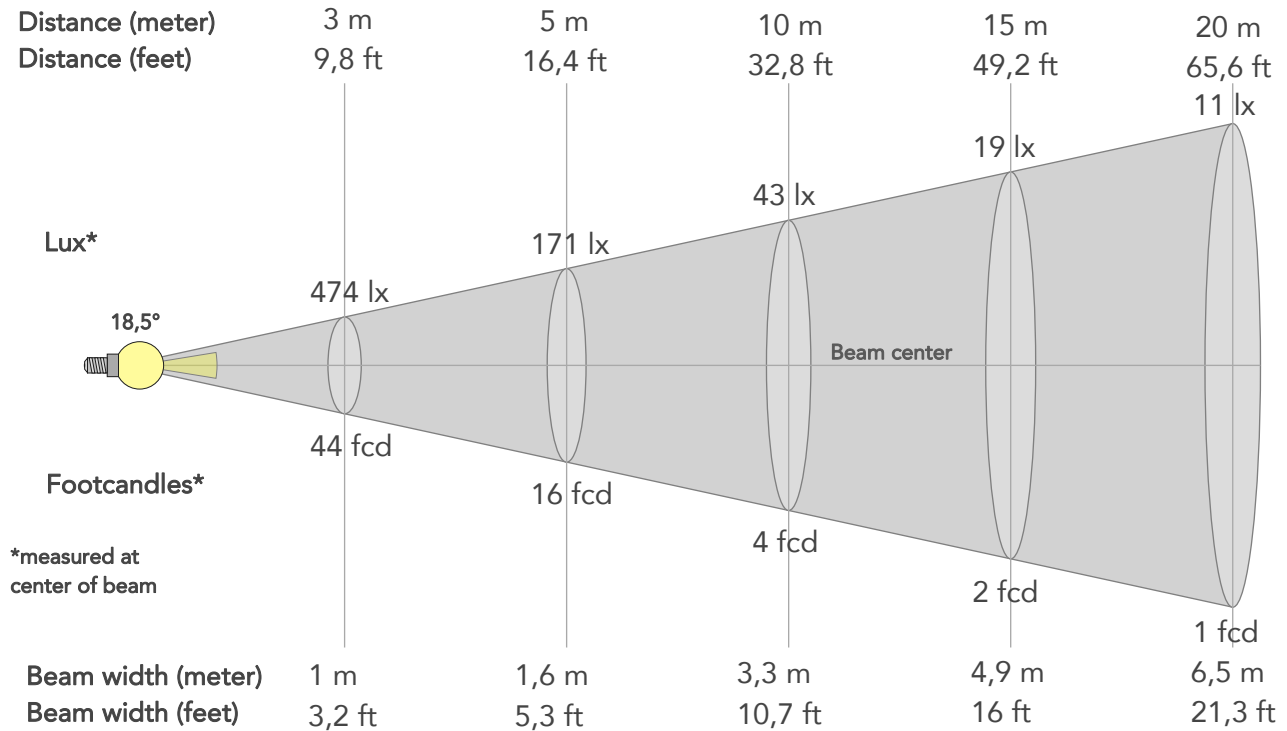
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	-1%	-2%
2	97	0%	-1%
3	94	0%	2%
4	96	0%	1%
5	93	2%	3%
6	90	6%	3%
7	90	6%	0%
8	92	4%	-2%
9	94	2%	-3%
10	95	-2%	-2%
11	92	2%	4%
12	89	4%	2%
13	91	5%	-4%
14	94	5%	0%
15	92	3%	-4%
16	89	3%	-7%



BEAM DETAILS



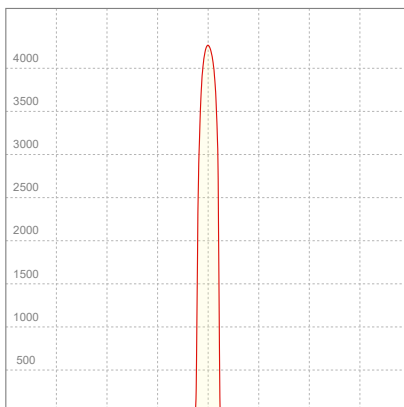
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18,5°	20,7°	22,9°	99,6%	99,4%



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	4266lx	1066lx	474lx	267lx	171lx	76lx	43lx	19lx	11lx	7lx	5lx	3lx	2lx
Footcand.	396fcd	99fcd	44fcd	25fcd	16fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,7m	1m	1,3m	1,6m	2,4m	3,3m	4,9m	6,5m	8,1m	9,8m	13m	16,3m
Beam wid.	1,1ft	2,1ft	3,2ft	4,3ft	5,3ft	8ft	10,7ft	16ft	21,3ft	26,7ft	32ft	42,7ft	53,3ft

LINEAR DISTRIBUTION DIAGRAM

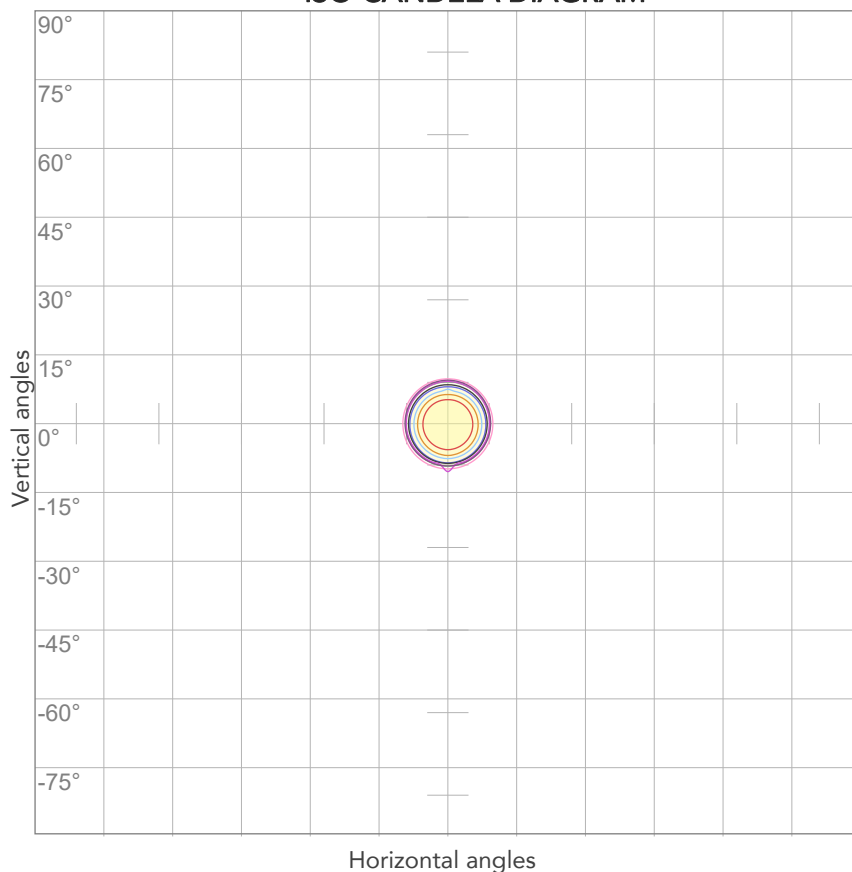


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,122A	25,6W	0,93	13lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



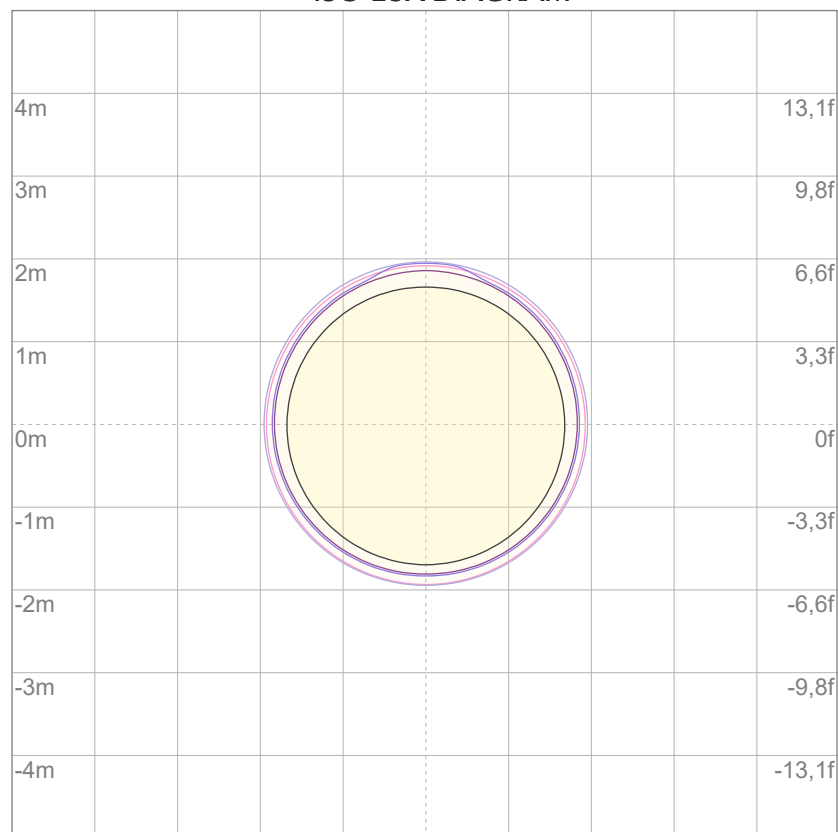
10%	427 cd
20%	853 cd
30%	1280 cd
40%	1706 cd
50%	2133 cd
60%	2559 cd
70%	2986 cd
80%	3412 cd

Conditions:

Number of c-planes: 2

Candela at center: 4266 cd

ISO LUX DIAGRAM



3%	1,28 lx
5%	2,13 lx
10%	4,27 lx
30%	12,8 lx
50%	21,3 lx

Conditions:

Number of c-planes: 2

Lux at center: 42,7 lx

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



Total lumen output:

329 lm

Peak candela output:

14561 cd

Light quality:

CRI: 95,2

Color temperature:

3964 K

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 1020 Min Zoom

Target:

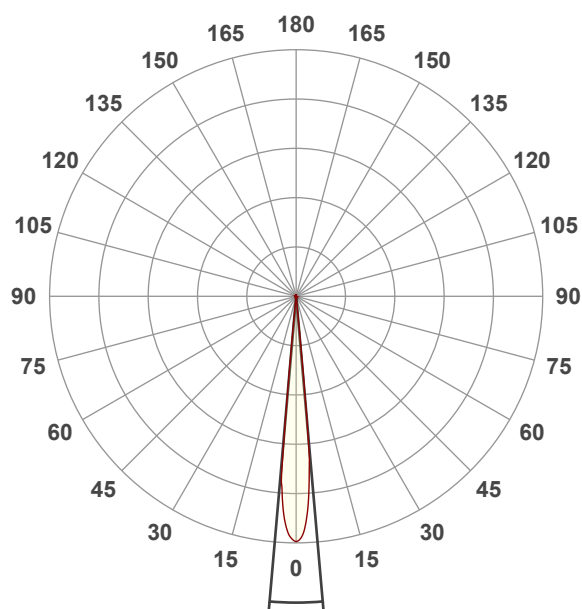
4000K

Operator:

Giacomo Matteo

Date and time:

14/06/2024 10:41:44

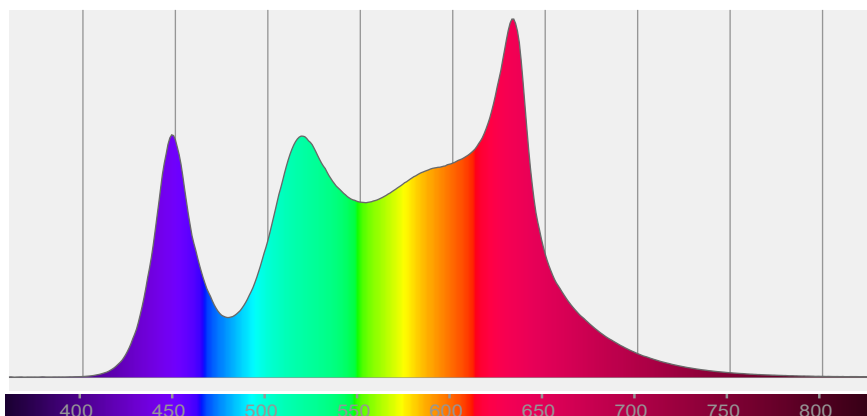


Beam angle 50%: 10°

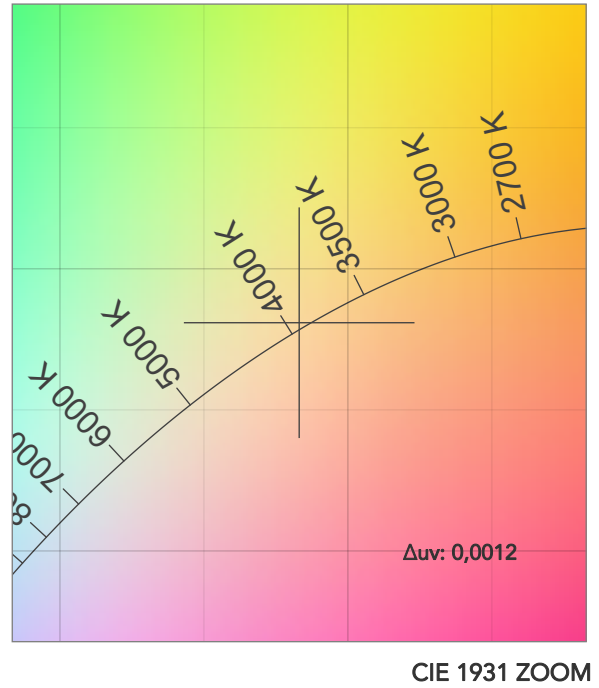
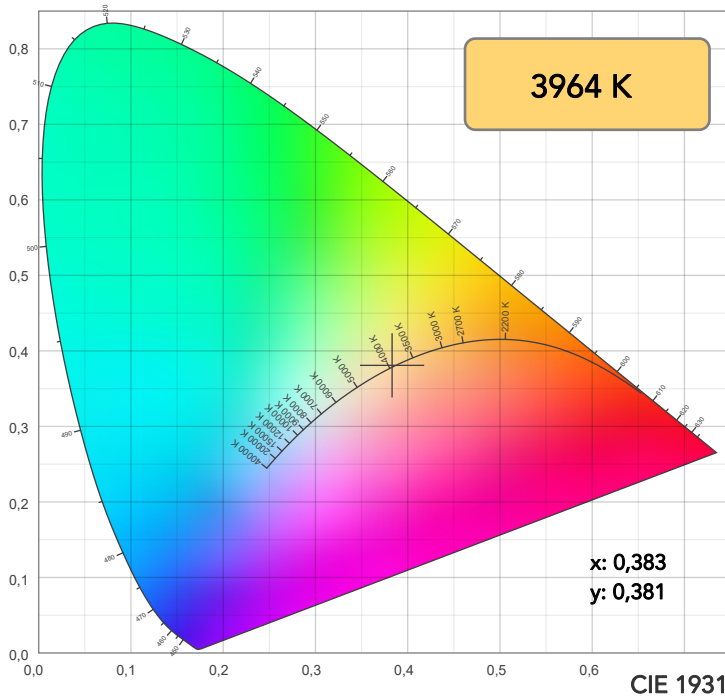
Field angle 10%: 11,2°

Cut off angle 2.5%: 11,5°

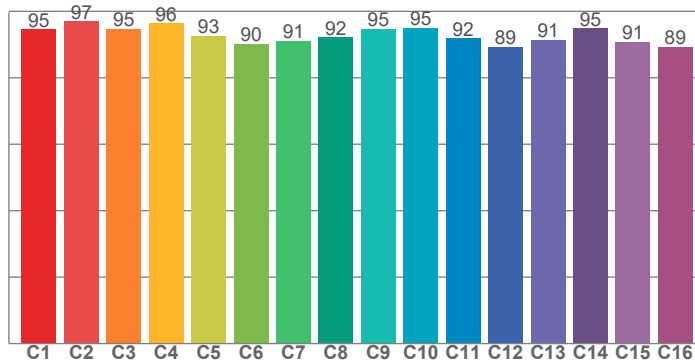
Spectra



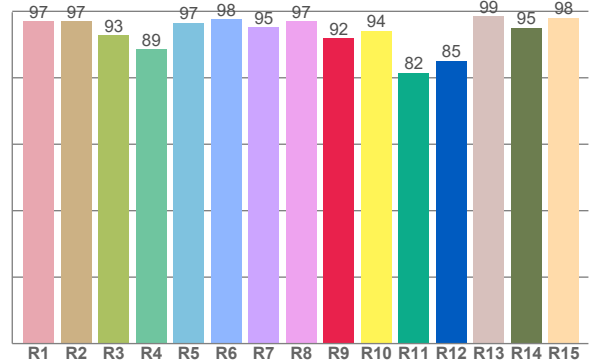
COLOR DETAILS



TM30: 93,1



CRI: 95,2 (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
97,0	97,0	92,8	88,6	96,6	97,6	95,3	97,0	92,0	94,1	81,5	85,1	98,6	95,0	98,0

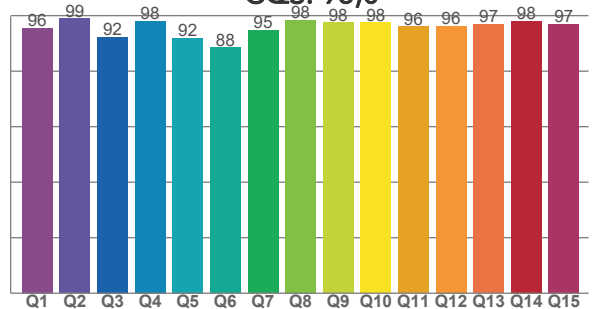
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,5	98,9	92,3	98,1	91,9	88,4	94,7	98,3	97,6	97,5	96,0	96,3	96,9	98,1	96,9

CQS: 95,0



COLOR PARAMETERS

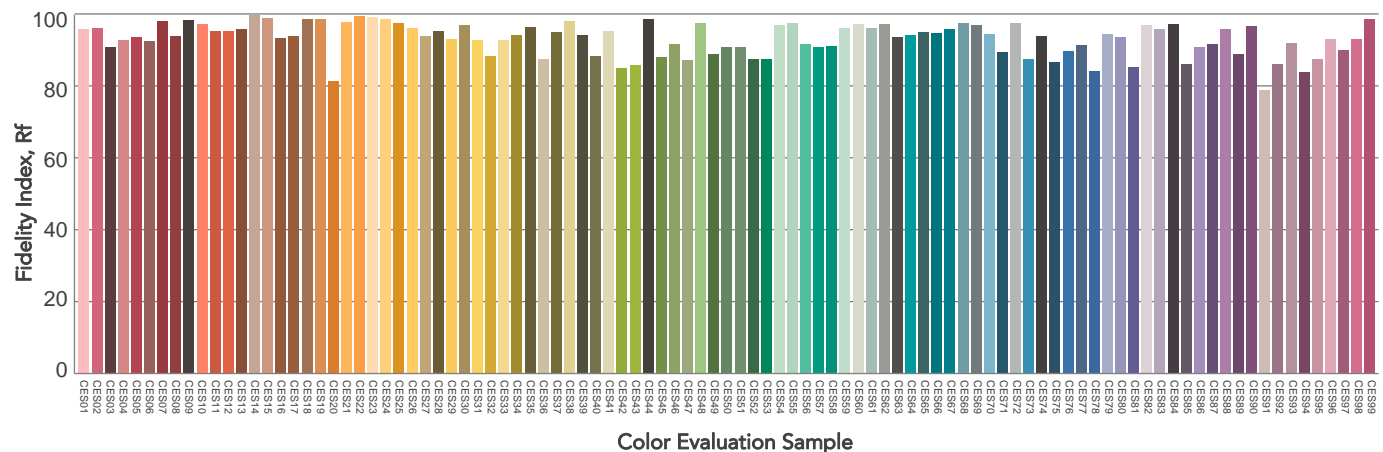
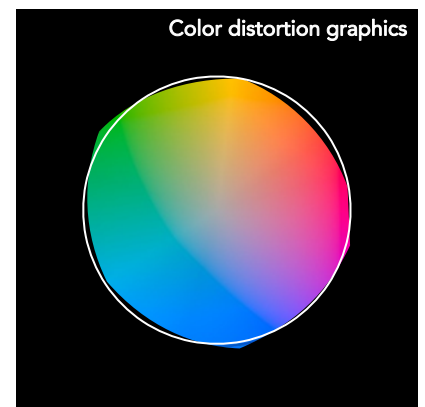
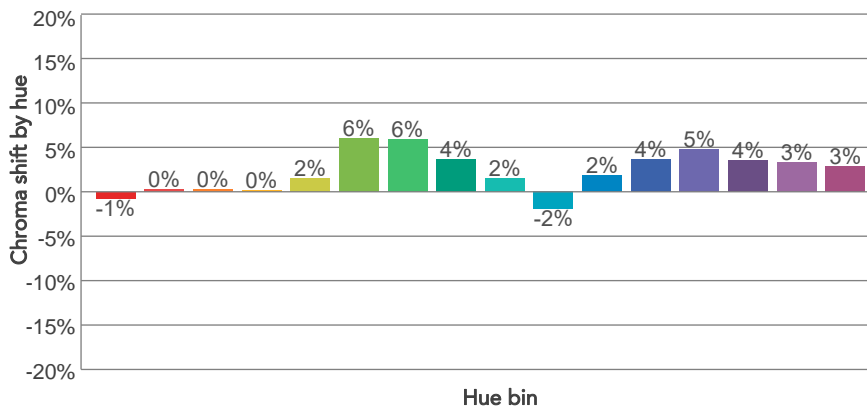
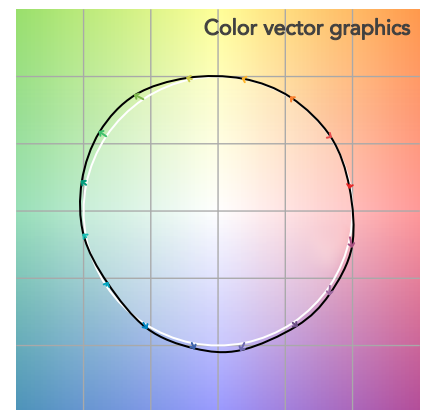
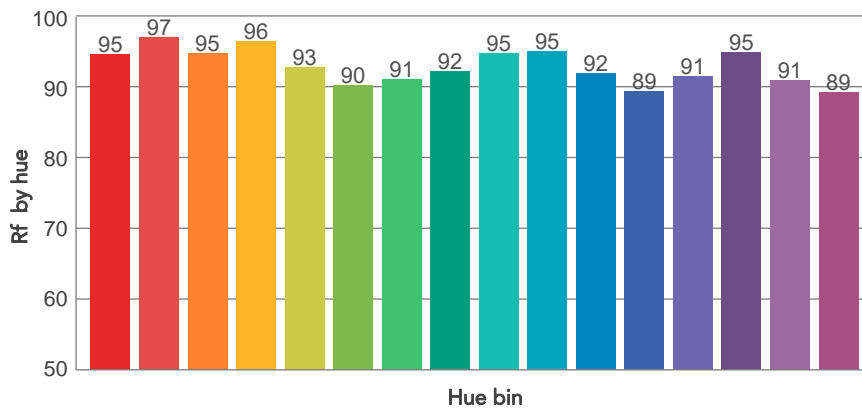
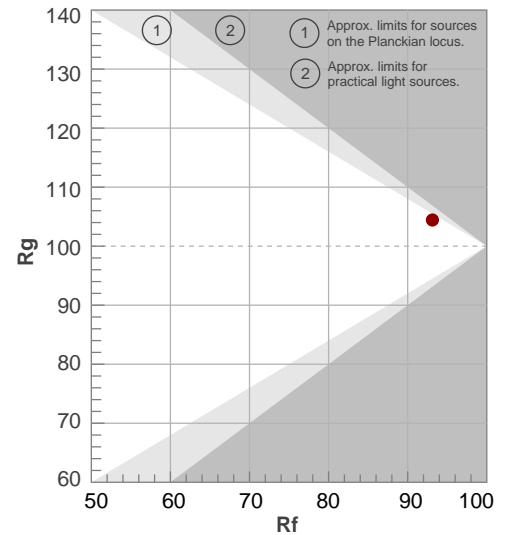
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3964 K	95,2	92,0	93,1	104,4	95,0	84	0,383	0,381	0,0012

TM30 DETAILS

Rf 93,1
Fidelity index Rf

Rg 104,4
Gammut index

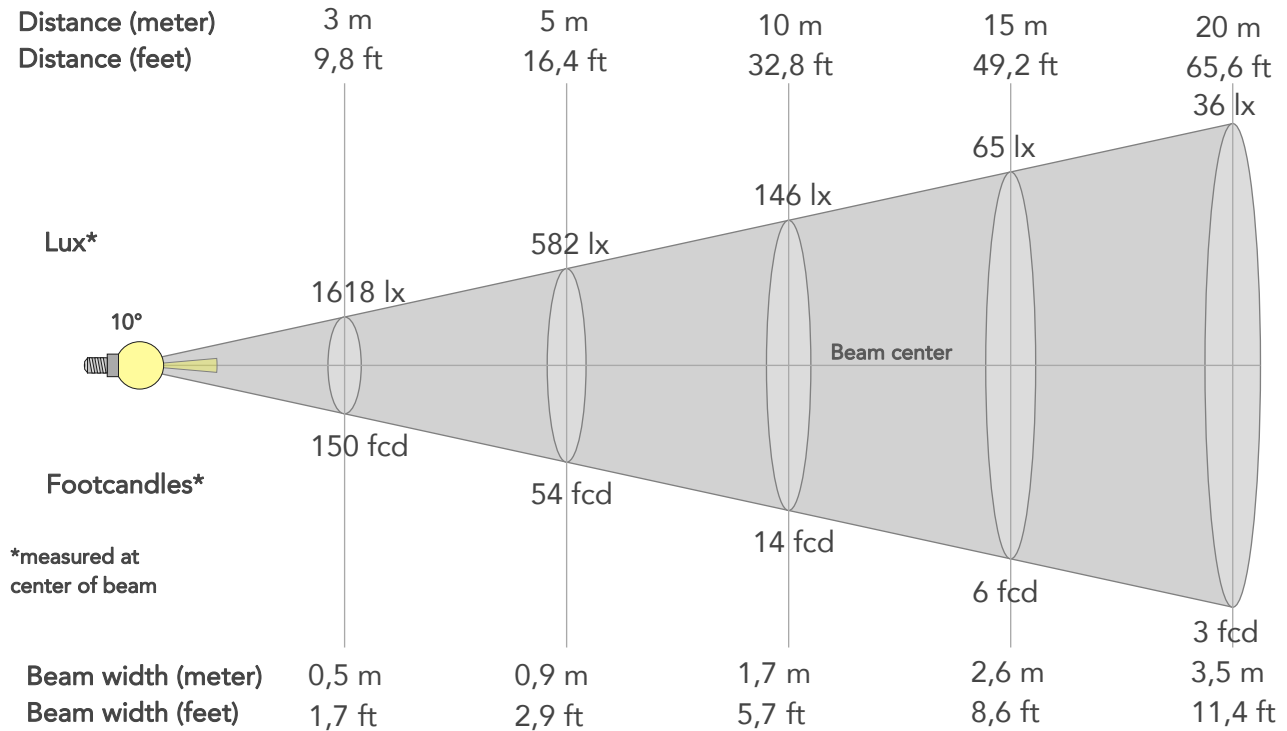
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	-1%	-2%
2	97	0%	-1%
3	95	0%	2%
4	96	0%	1%
5	93	2%	3%
6	90	6%	3%
7	91	6%	0%
8	92	4%	-2%
9	95	2%	-2%
10	95	-2%	-1%
11	92	2%	4%
12	89	4%	2%
13	91	5%	-3%
14	95	4%	1%
15	91	3%	-5%
16	89	3%	-6%



BEAM DETAILS



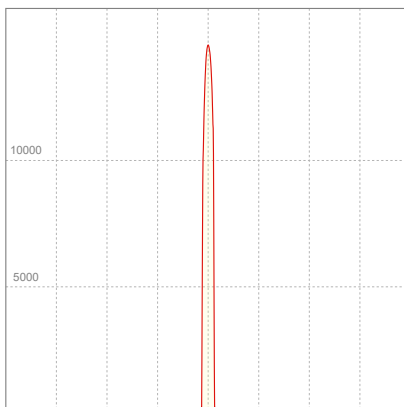
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
10°	11,2°	11,5°	98,9%	98,4%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	14559lx	3640lx	1618lx	910lx	582lx	259lx	146lx	65lx	36lx	23lx	16lx	9lx	6lx
Footcand.	1353fcd	338fcd	150fcd	85fcd	54fcd	24fcd	14fcd	6fcd	3fcd	2fcd	2fcd	1fcd	1fcd
Beam wid.	0,2m	0,3m	0,5m	0,7m	0,9m	1,3m	1,7m	2,6m	3,5m	4,4m	5,2m	7m	8,7m
Beam wid.	0,6ft	1,1ft	1,7ft	2,3ft	2,9ft	4,3ft	5,7ft	8,6ft	11,4ft	14,3ft	17,1ft	22,9ft	28,6ft

LINEAR DISTRIBUTION DIAGRAM

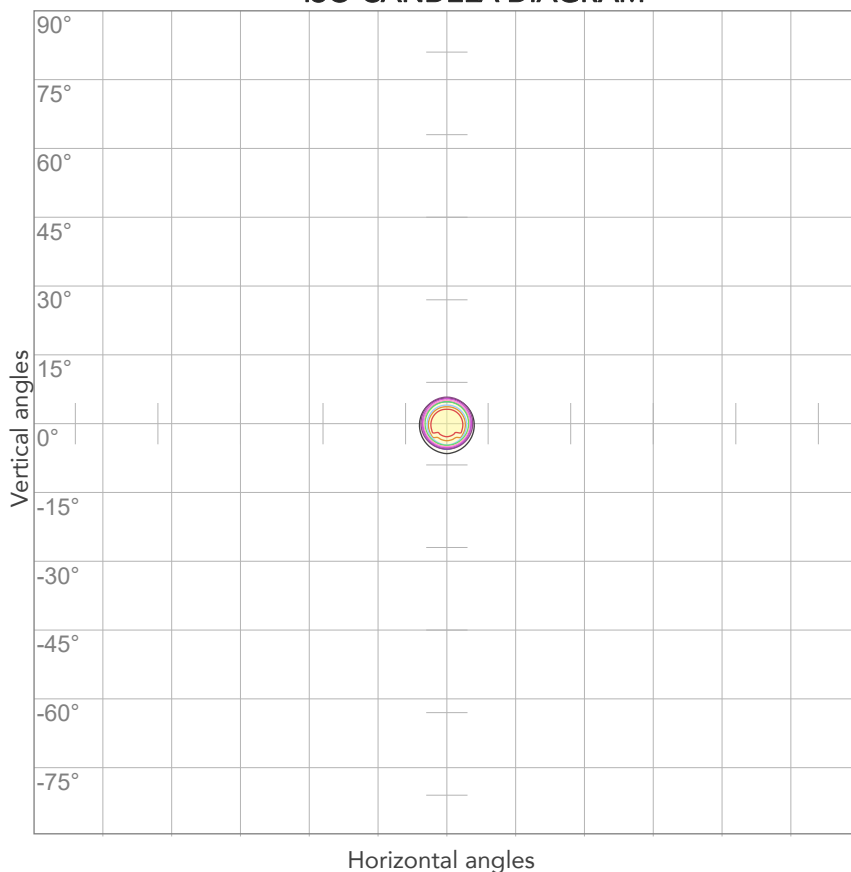


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,119A	24,8W	0,92	13lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



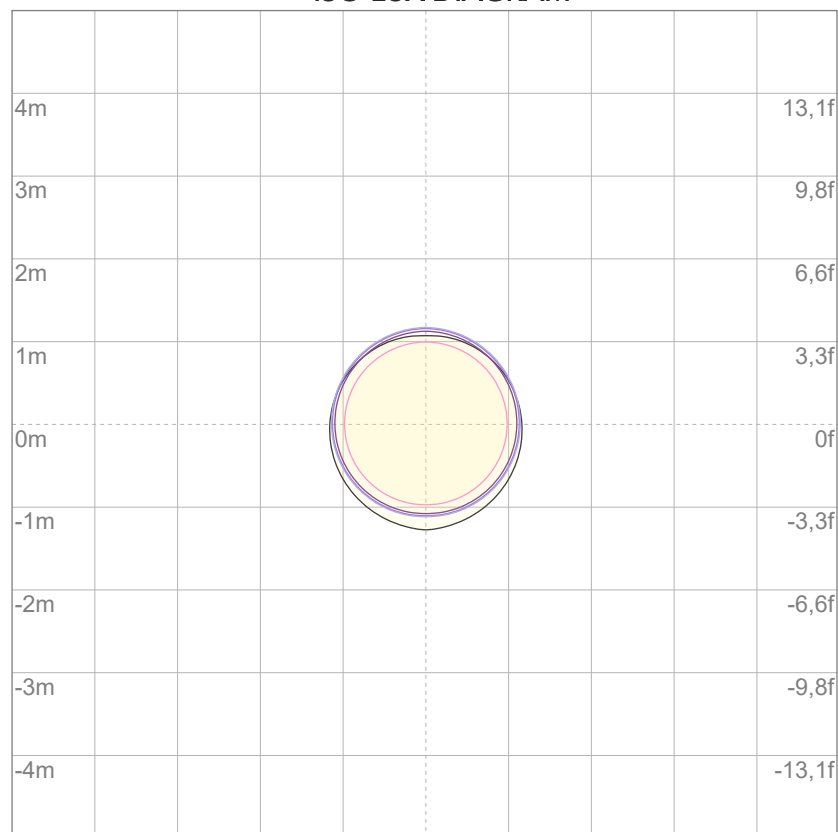
10%	1456 cd
20%	2912 cd
30%	4368 cd
40%	5823 cd
50%	7279 cd
60%	8735 cd
70%	10191 cd
80%	11647 cd

Conditions:

Number of c-planes: 2

Candela at center: 14559 cd

ISO LUX DIAGRAM



3%	4,37 lx
5%	7,28 lx
10%	14,6 lx
30%	43,7 lx
50%	72,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 146 lx

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



Total lumen output:

350 lm

Peak candela output:

4542 cd

Light quality:

CRI: 92,5

Color temperature:

5633 K

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 1020 Max Zoom

Target:

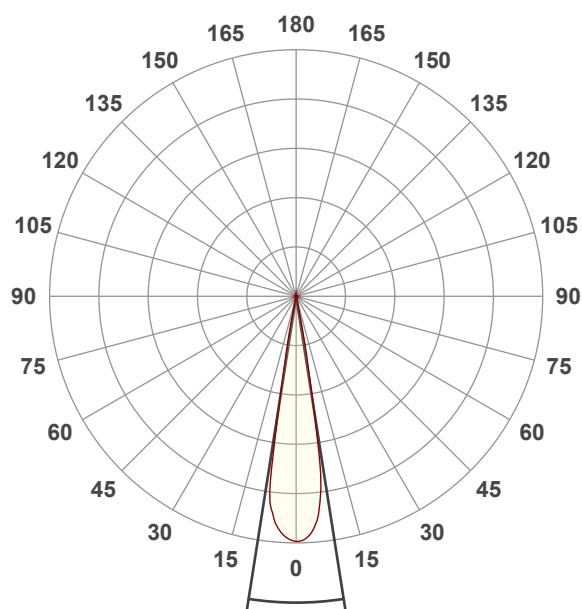
5600K

Operator:

Giacomo Matteo

Date and time:

17/06/2024 09:34:16

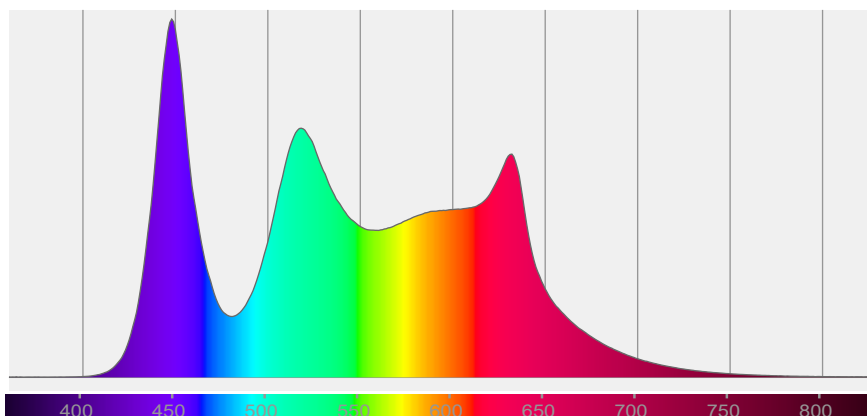


Beam angle 50%: 17,9°

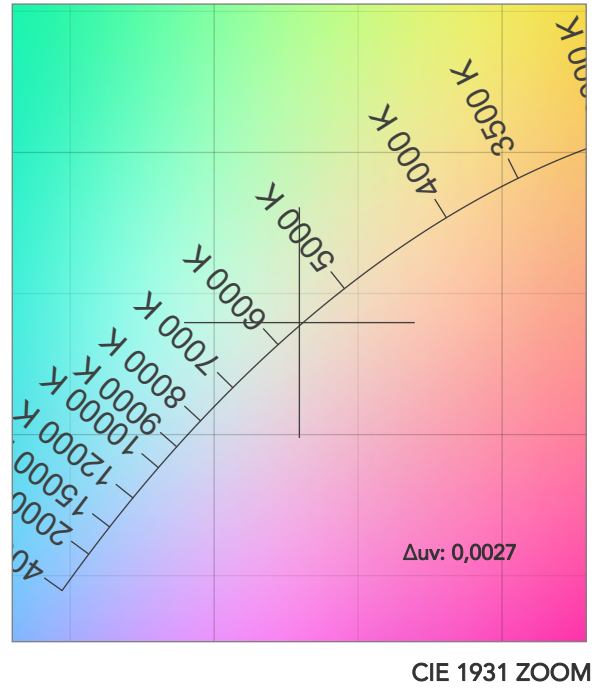
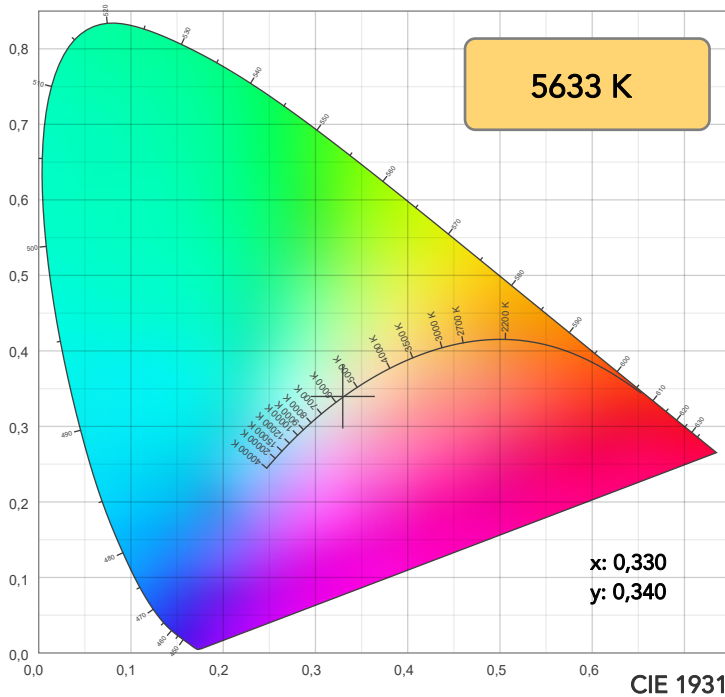
Field angle 10%: 22,4°

Cut off angle 2.5%: 23,7°

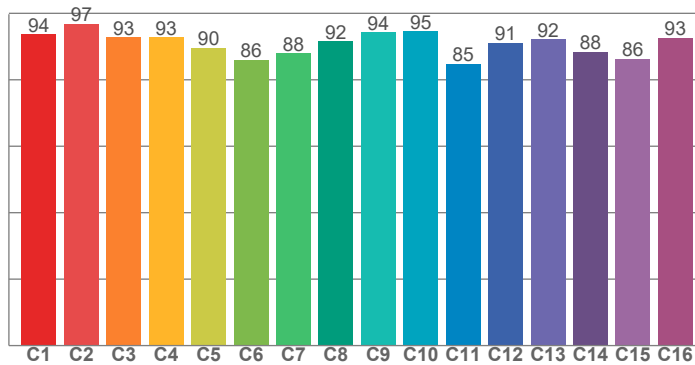
Spectra



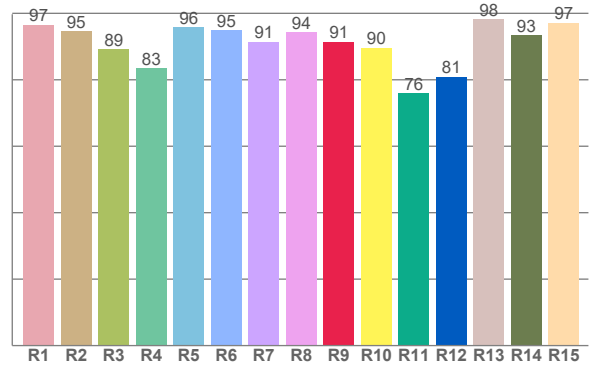
COLOR DETAILS



TM30: 90,8



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
96,6	94,6	89,1	83,4	95,8	95,0	91,4	94,3	91,5	89,6	75,9	80,9	98,2	93,4	97,1

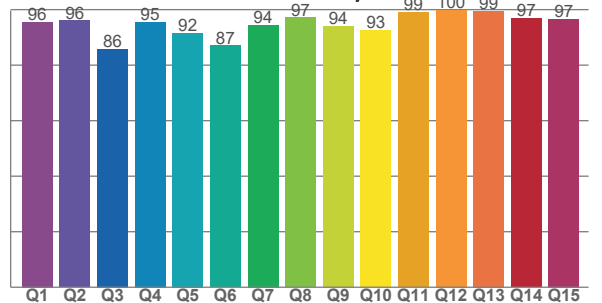
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,7	96,8	92,8	92,8	89,6	86,1	88,0	91,5	94,3	94,6	84,9	91,1	92,2	88,5	86,2	92,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,5	96,1	85,9	95,5	91,6	87,0	94,4	97,1	94,2	92,7	99,0	99,9	99,4	96,9	96,6

CQS: 93,4



COLOR PARAMETERS

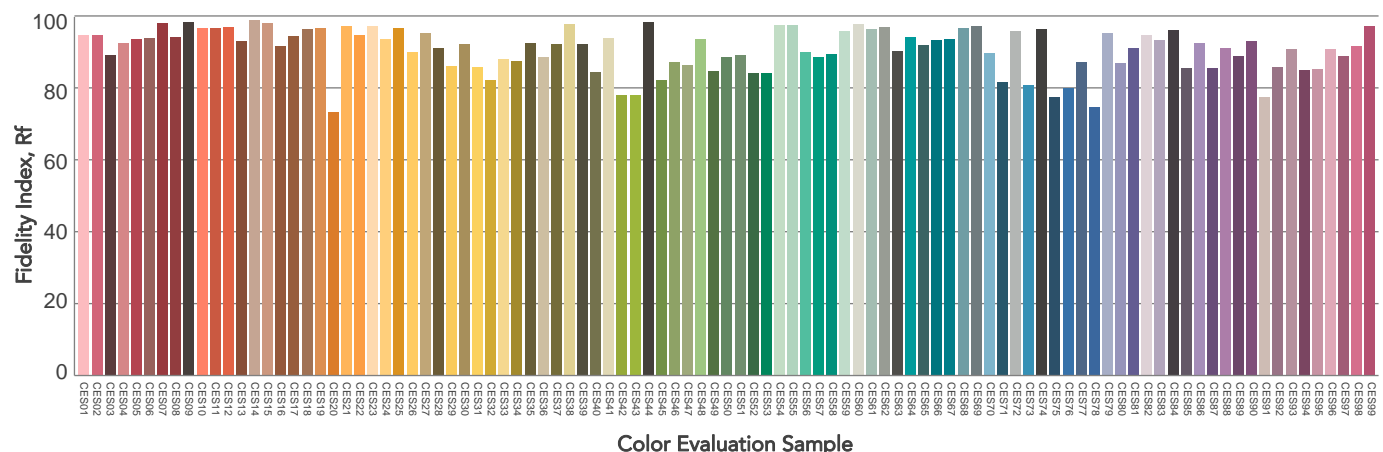
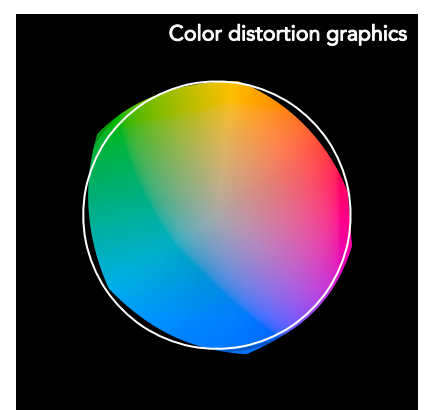
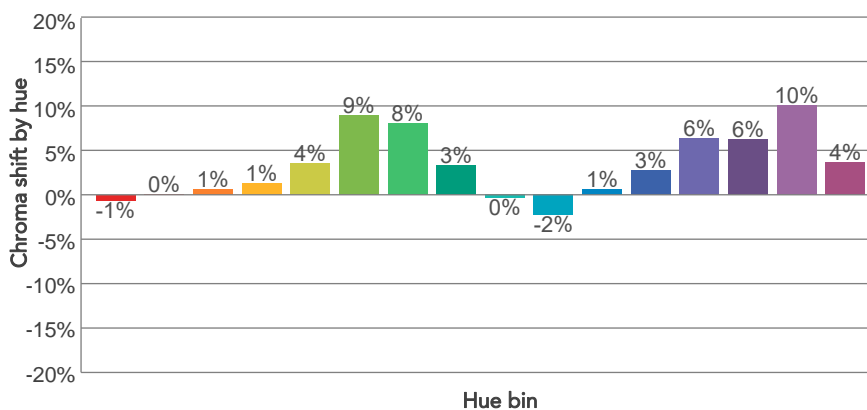
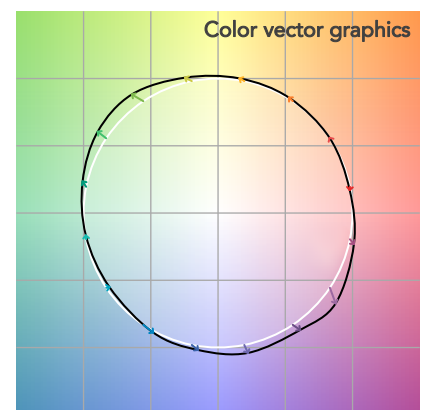
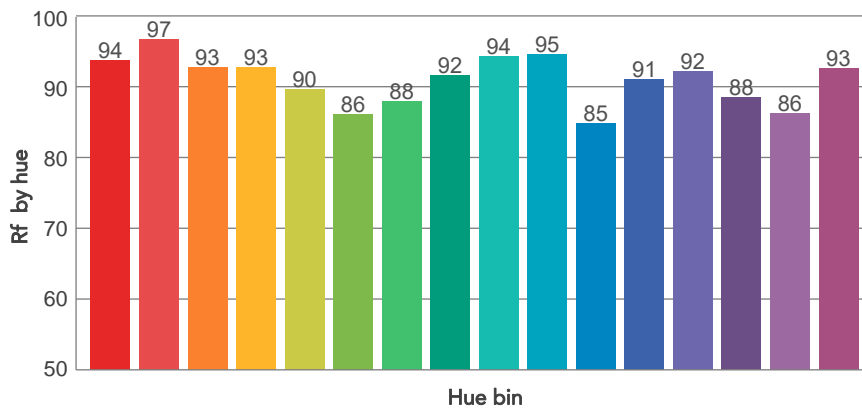
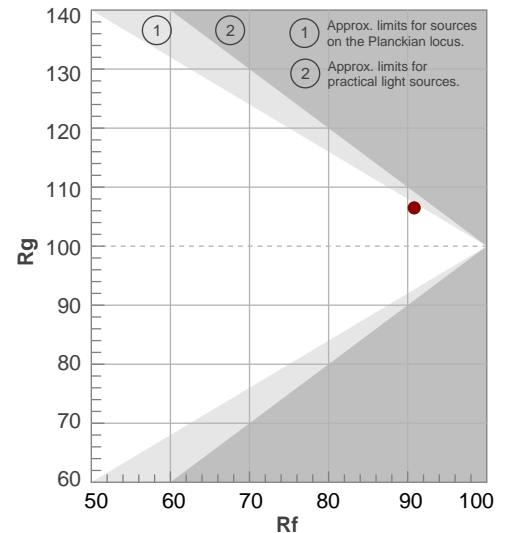
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5633 K	92,5	91,5	90,8	106,5	93,4	85	0,330	0,340	0,0027

TM30 DETAILS

Rf 90,8
Fidelity index Rf

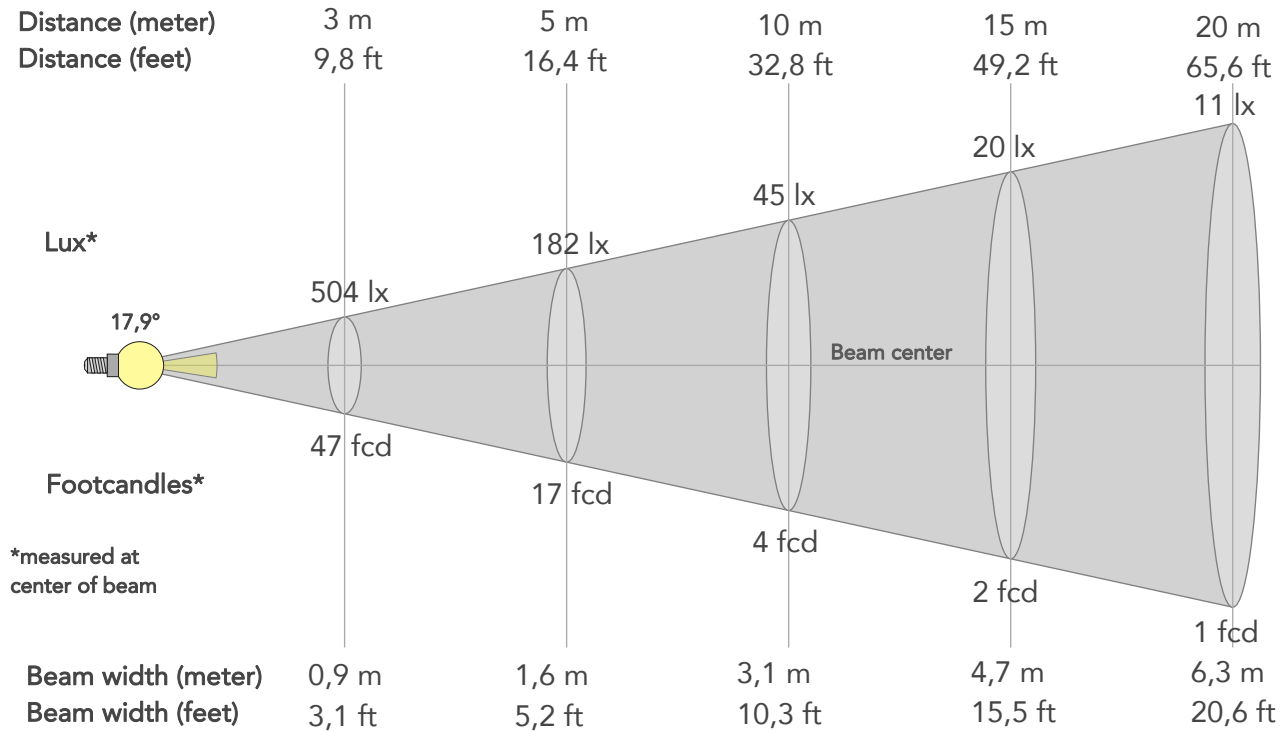
Rg 106,5
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	-1%	-2%
2	97	0%	0%
3	93	1%	4%
4	93	1%	4%
5	90	4%	4%
6	86	9%	4%
7	88	8%	-1%
8	92	3%	-3%
9	94	0%	-3%
10	95	-2%	1%
11	85	1%	9%
12	91	3%	5%
13	92	6%	2%
14	88	6%	2%
15	86	10%	-7%
16	93	4%	-3%



BEAM DETAILS

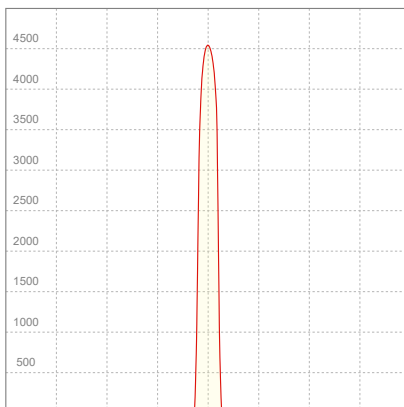
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17,9°	22,4°	23,7°	99,5%	99,3%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	4540lx	1135lx	504lx	284lx	182lx	81lx	45lx	20lx	11lx	7lx	5lx	3lx	2lx
Footcand.	422fcd	105fcd	47fcd	26fcd	17fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,9m	1,3m	1,6m	2,4m	3,1m	4,7m	6,3m	7,9m	9,4m	12,6m	15,7m
Beam wid.	1ft	2,1ft	3,1ft	4,1ft	5,2ft	7,7ft	10,3ft	15,5ft	20,6ft	25,8ft	30,9ft	41,2ft	51,5ft

LINEAR DISTRIBUTION DIAGRAM

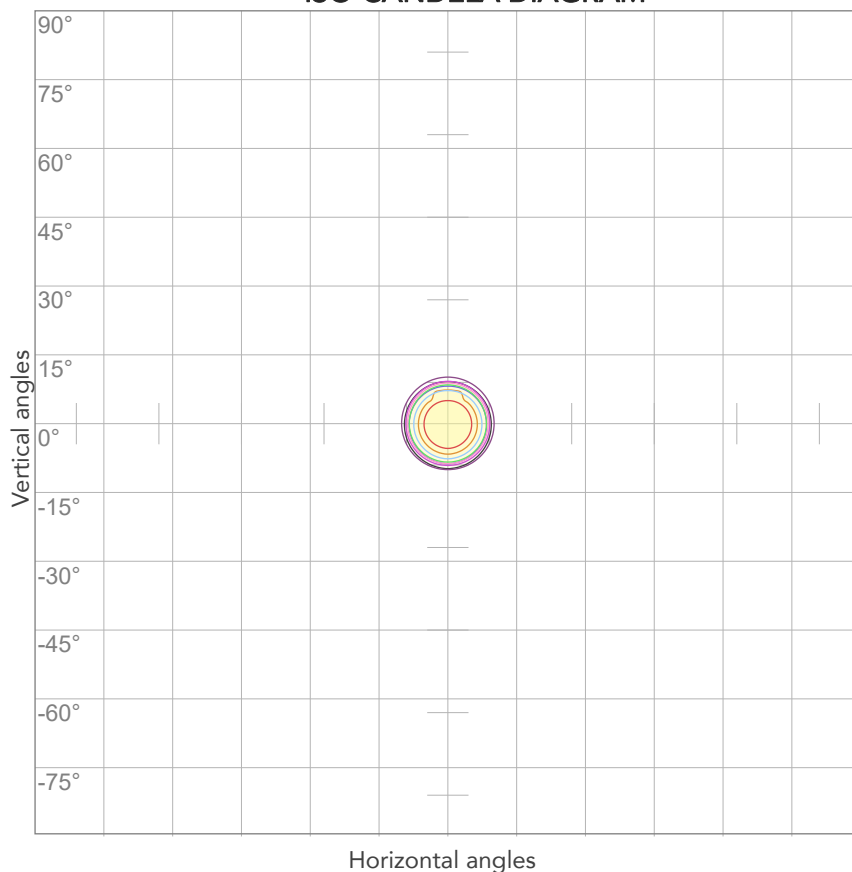


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,133A	28,3W	0,94	12lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



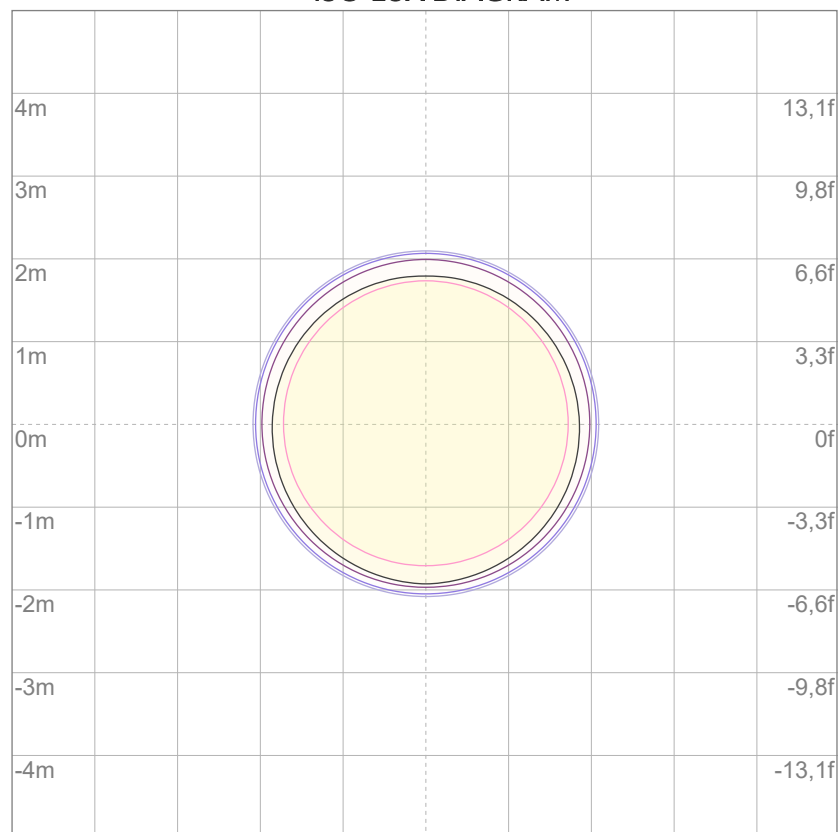
10%	454 cd
20%	908 cd
30%	1362 cd
40%	1816 cd
50%	2270 cd
60%	2724 cd
70%	3178 cd
80%	3632 cd

Conditions:

Number of c-planes: 2

Candela at center: 4540 cd

ISO LUX DIAGRAM



3%	1,36 lx
5%	2,27 lx
10%	4,54 lx
30%	13,6 lx
50%	22,7 lx

Conditions:

Number of c-planes: 2

Lux at center: 45,4 lx

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



Total lumen output:

353 lm

Peak candela output:

15661 cd

Light quality:

CRI: 92,6

Color temperature:

5619 K

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 1020 Min Zoom

Target:

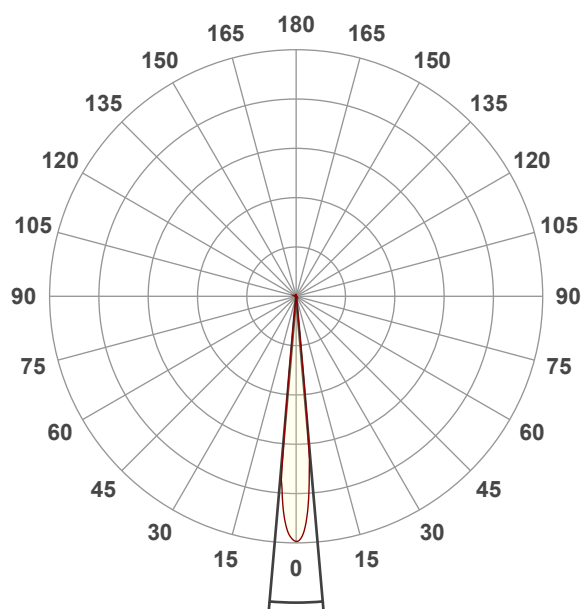
5600K

Operator:

Giacomo Matteo

Date and time:

14/06/2024 10:44:54

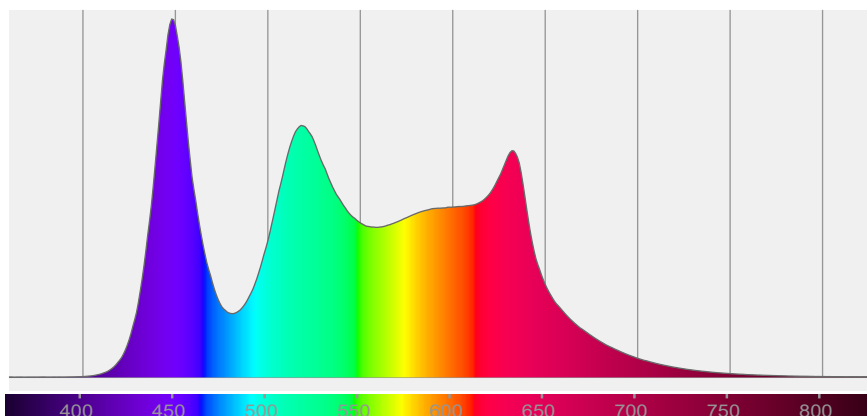


Beam angle 50%: 10°

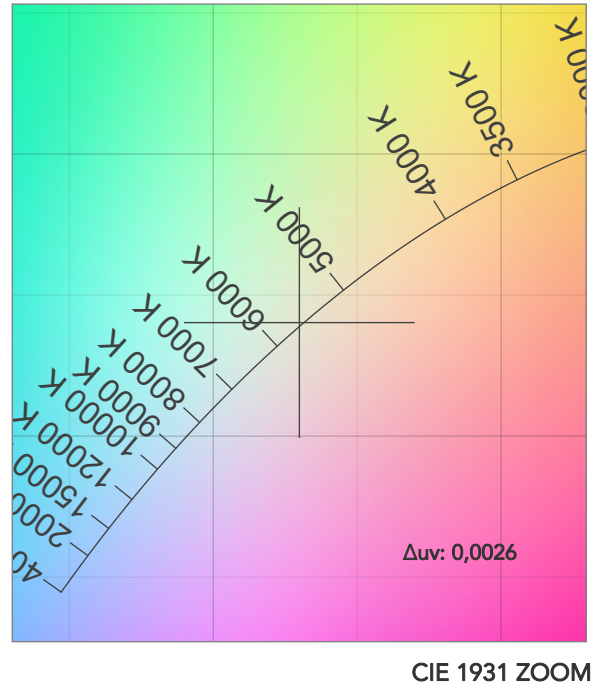
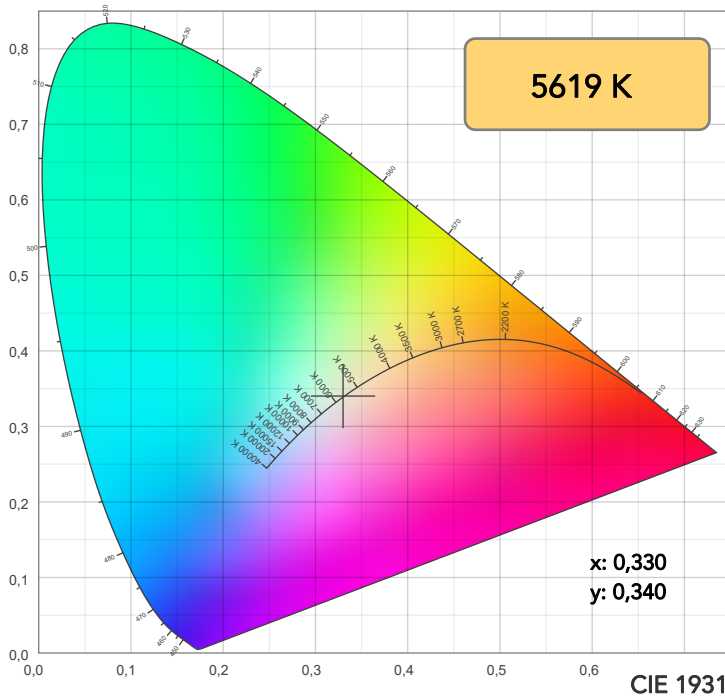
Field angle 10%: 11,2°

Cut off angle 2.5%: 11,5°

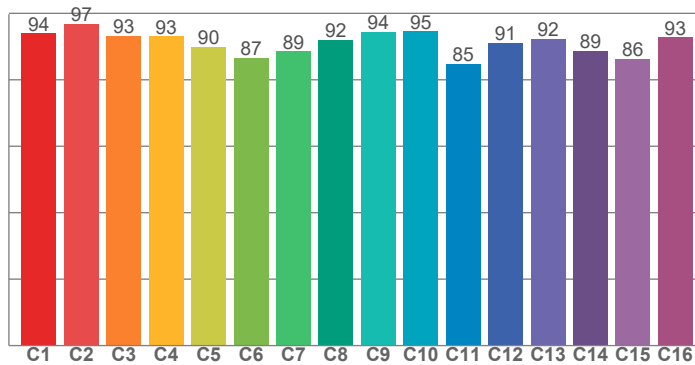
Spectra



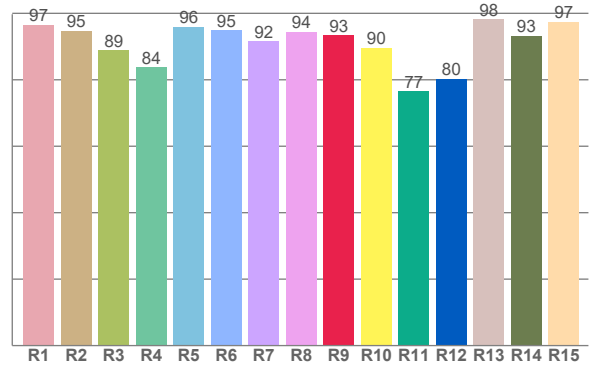
COLOR DETAILS



TM30: 91,1



CRI: 92,6 (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
96,5	94,7	89,0	83,9	96,0	95,0	91,7	94,5	93,4	89,6	76,5	80,3	98,2	93,3	97,5

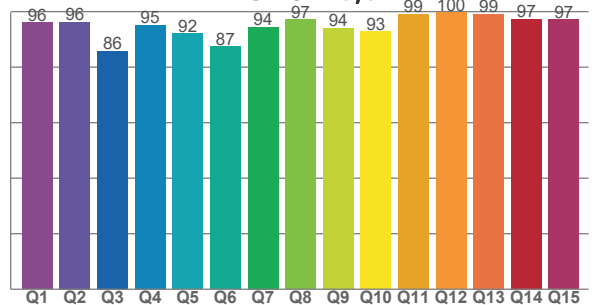
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,0	96,9	93,2	93,1	89,9	86,5	88,5	92,0	94,5	94,5	84,8	91,2	92,3	88,7	86,3	92,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,0	96,2	85,9	95,3	92,1	87,4	94,4	97,2	94,0	92,8	99,0	99,7	99,2	97,4	97,1

CQS: 93,6



COLOR PARAMETERS

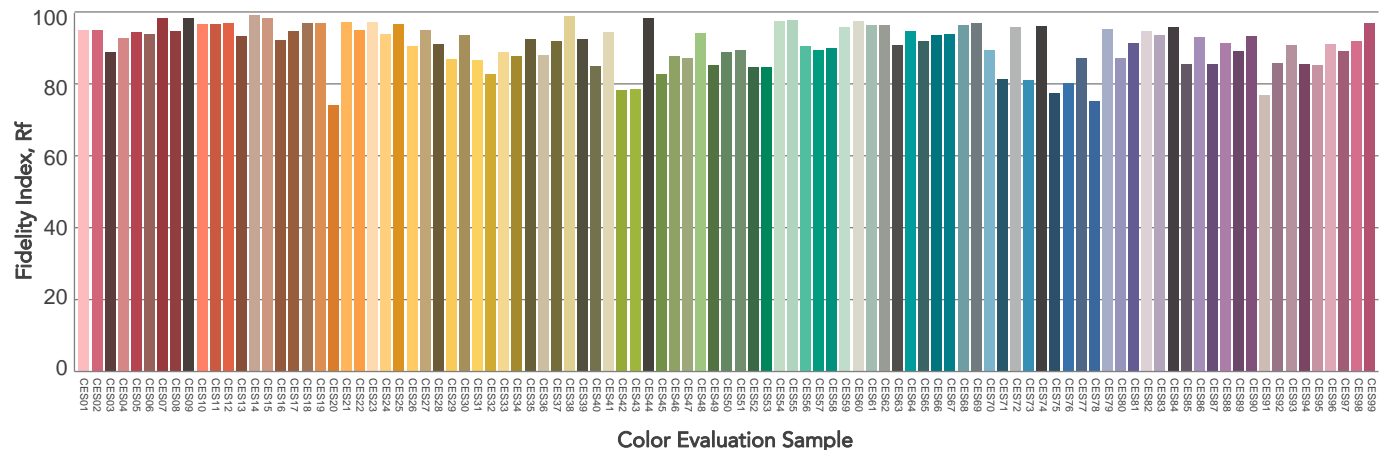
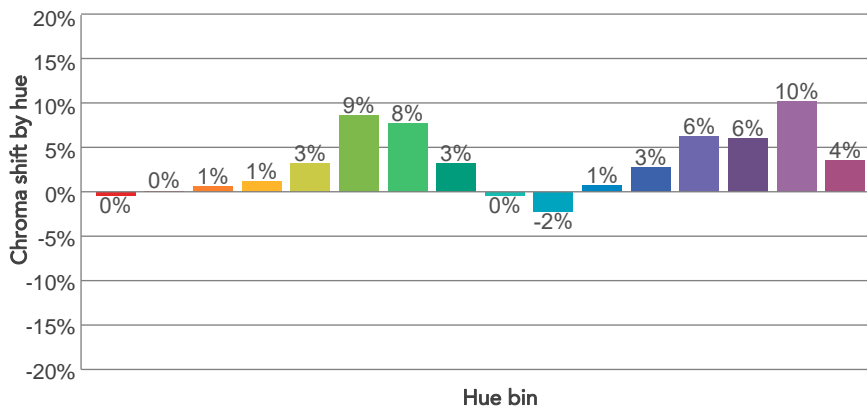
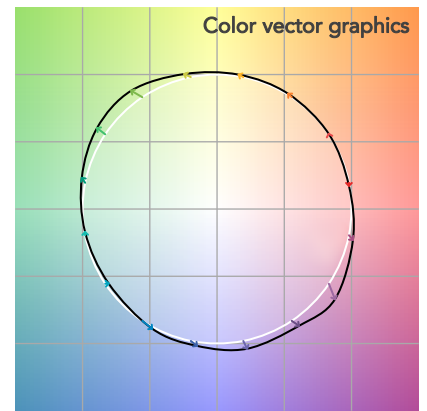
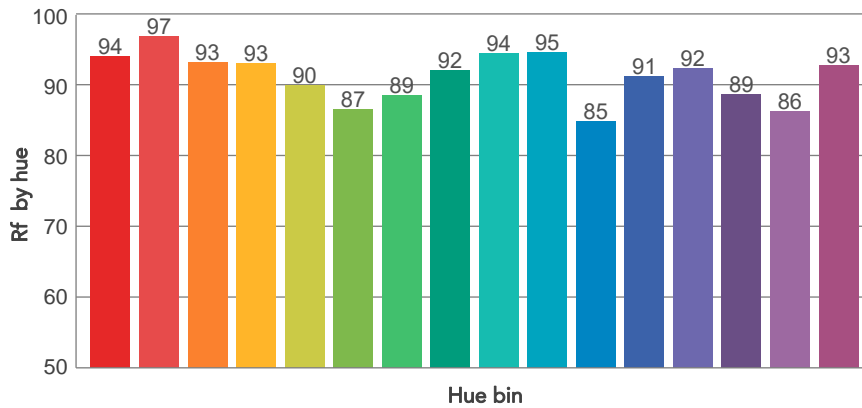
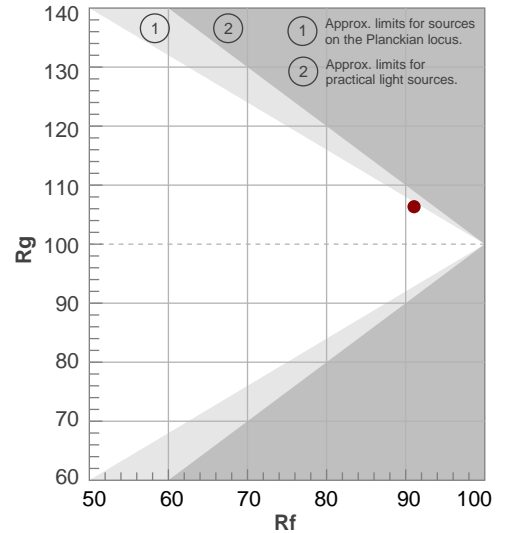
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5619 K	92,6	93,4	91,1	106,3	93,6	87	0,330	0,340	0,0026

TM30 DETAILS

Rf 91,1
Fidelity index Rf

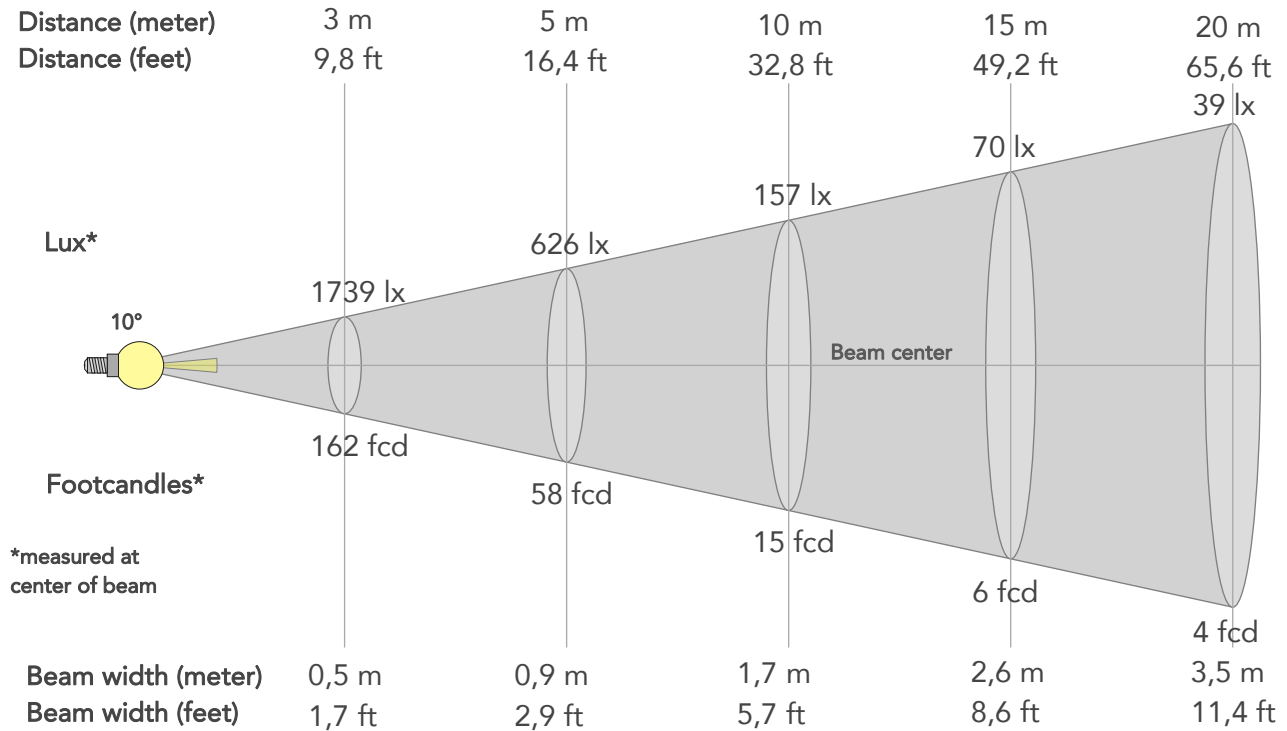
Rg 106,3
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	0%	-2%
2	97	0%	0%
3	93	1%	4%
4	93	1%	4%
5	90	3%	4%
6	87	9%	4%
7	89	8%	0%
8	92	3%	-3%
9	94	0%	-2%
10	95	-2%	1%
11	85	1%	9%
12	91	3%	5%
13	92	6%	2%
14	89	6%	2%
15	86	10%	-7%
16	93	4%	-3%



BEAM DETAILS

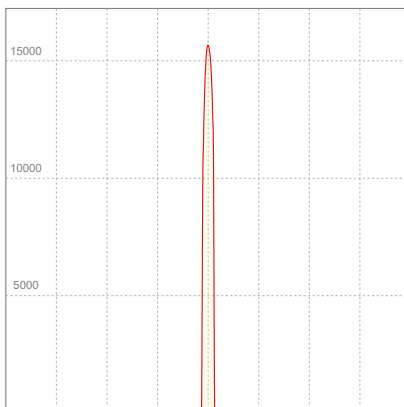
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
10°	11,2°	11,5°	99,1%	98,7%



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	15653lx	3913lx	1739lx	978lx	626lx	278lx	157lx	70lx	39lx	25lx	17lx	10lx	6lx
Footcand.	1454fcd	364fcd	162fcd	91fcd	58fcd	26fcd	15fcd	6fcd	4fcd	2fcd	2fcd	1fcd	1fcd
Beam wid.	0,2m	0,3m	0,5m	0,7m	0,9m	1,3m	1,7m	2,6m	3,5m	4,4m	5,2m	7m	8,7m
Beam wid.	0,6ft	1,1ft	1,7ft	2,3ft	2,9ft	4,3ft	5,7ft	8,6ft	11,4ft	14,3ft	17,1ft	22,9ft	28,6ft

LINEAR DISTRIBUTION DIAGRAM

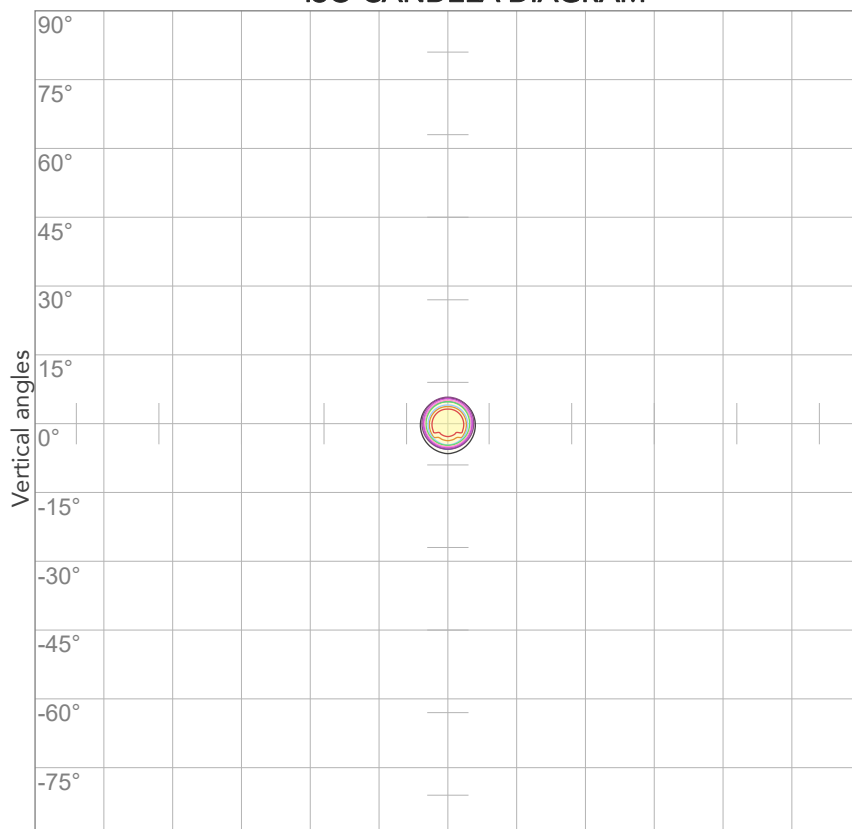


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,131A	27,8W	0,93	13lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



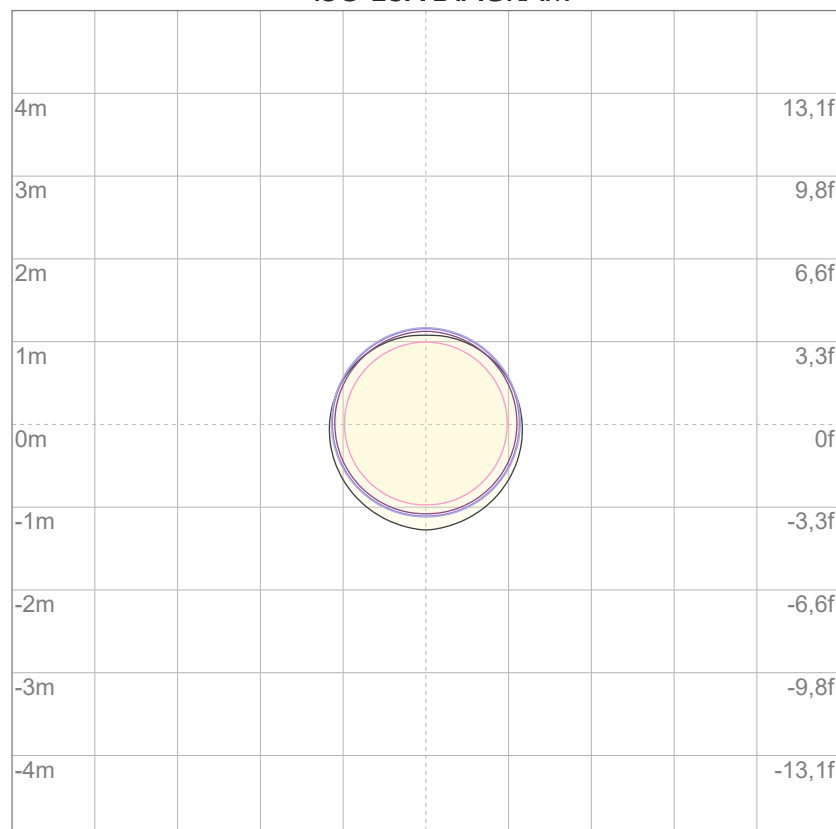
10%	1565 cd
20%	3131 cd
30%	4696 cd
40%	6261 cd
50%	7827 cd
60%	9392 cd
70%	10957 cd
80%	12522 cd

Conditions:

Number of c-planes: 2

Candela at center: 15653 cd

ISO LUX DIAGRAM



3%	4,70 lx
5%	7,83 lx
10%	15,7 lx
30%	47,0 lx
50%	78,3 lx

Conditions:

Number of c-planes: 2

Lux at center: 157 lx

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



Total lumen output:

351 lm

Peak candela output:

4553 cd

Light quality:

CRI: 92,3

Color temperature:

6082 K

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 1020 Max Zoom

Target:

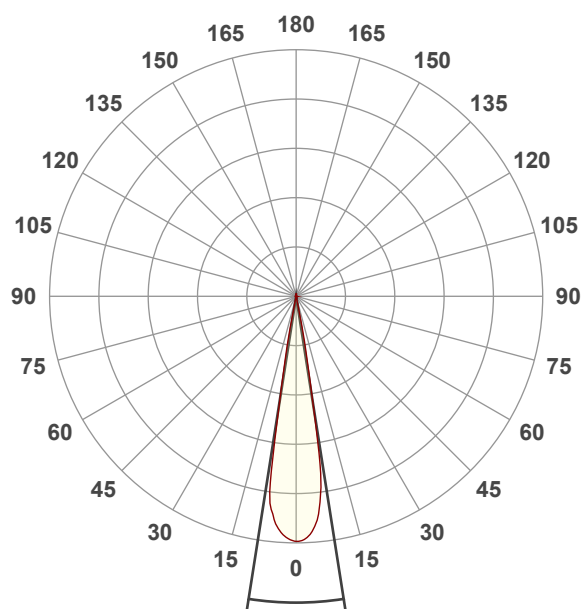
6000K

Operator:

Giacomo Matteo

Date and time:

17/06/2024 09:36:15

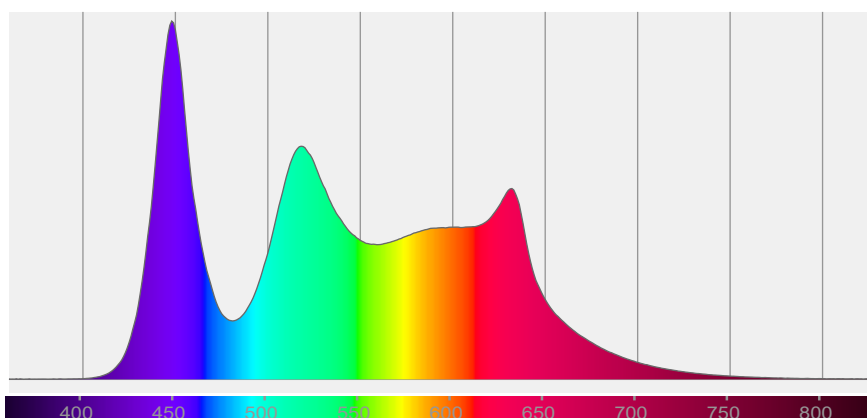


Beam angle 50%: 17,9°

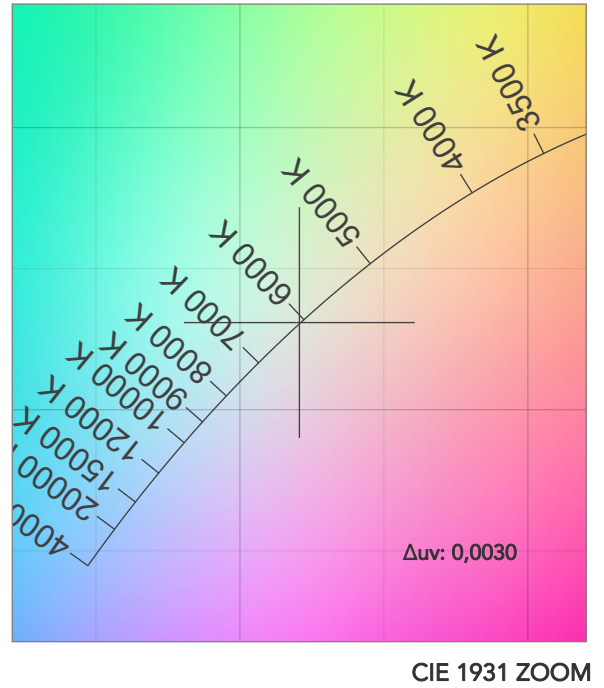
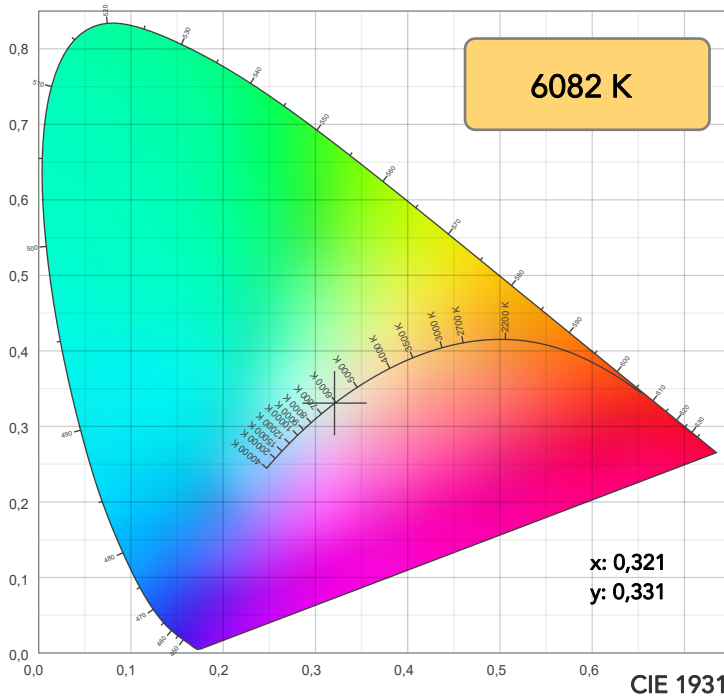
Field angle 10%: 22,4°

Cut off angle 2.5%: 23,7°

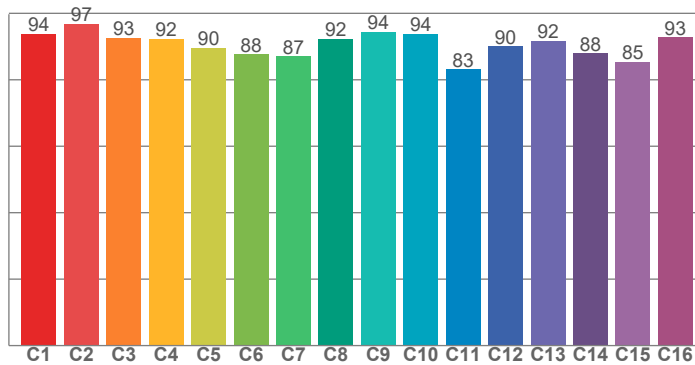
Spectra



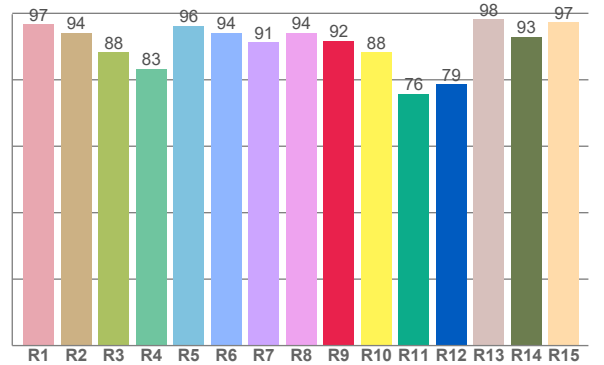
COLOR DETAILS



TM30: 90,6



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
96,7	94,1	88,2	83,3	96,2	94,1	91,2	94,2	91,7	88,4	75,8	78,6	98,2	93,0	97,3

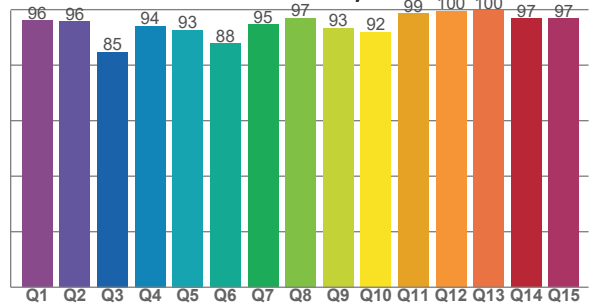
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,8	96,9	92,6	92,3	89,6	87,6	87,0	92,2	94,4	93,8	83,1	90,0	91,7	88,0	85,4	92,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,0	95,7	84,7	94,1	92,6	87,8	94,7	96,9	93,5	91,9	98,5	99,5	99,6	96,7	96,8

CQS: 93,3



COLOR PARAMETERS

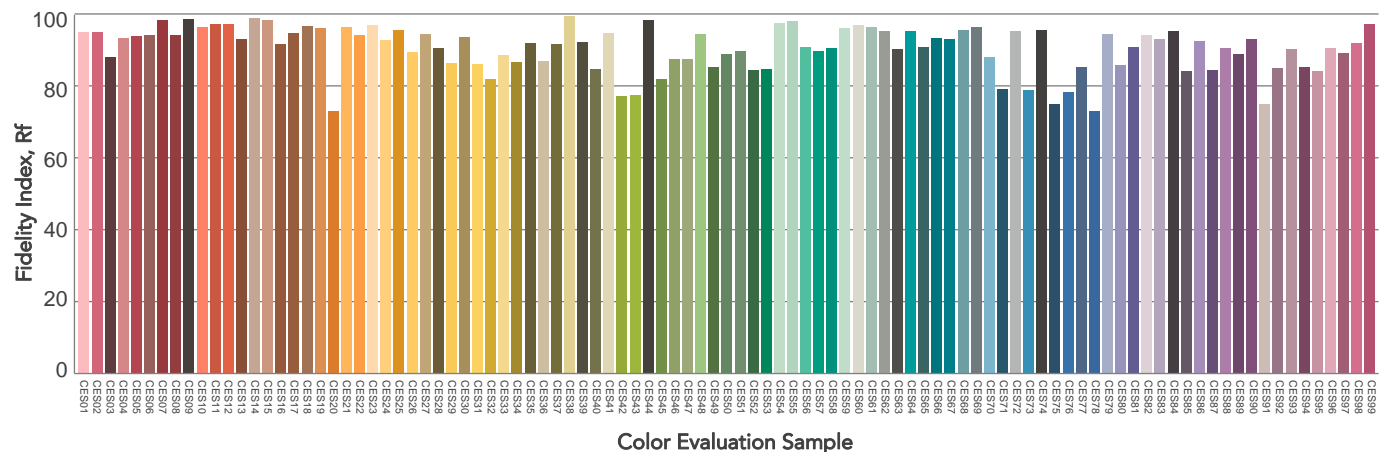
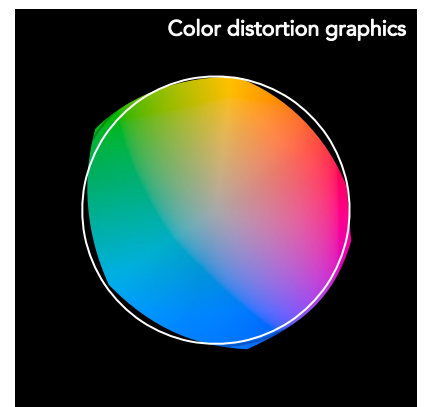
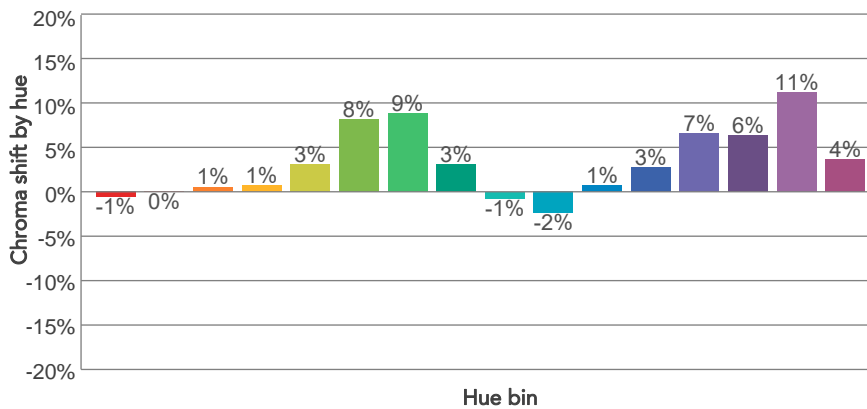
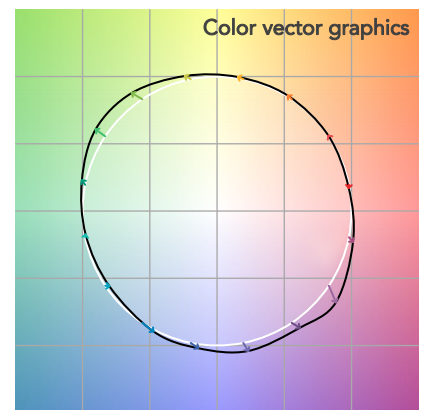
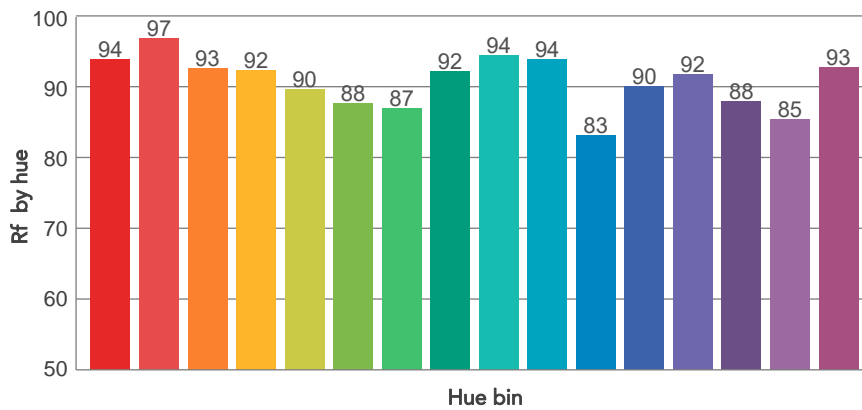
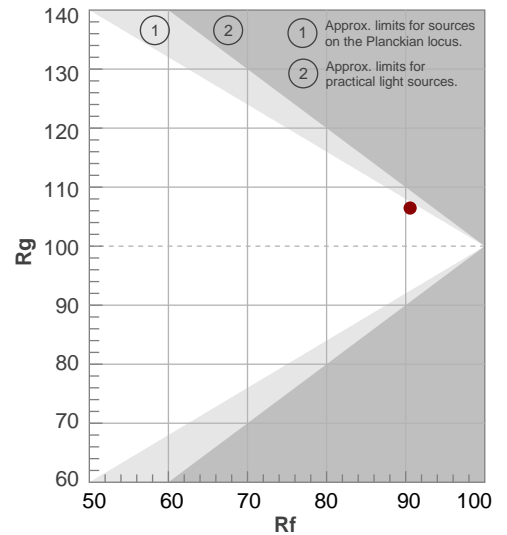
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6082 K	92,3	91,7	90,6	106,5	93,3	86	0,321	0,331	0,0030

TM30 DETAILS

Rf 90,6
Fidelity index Rf

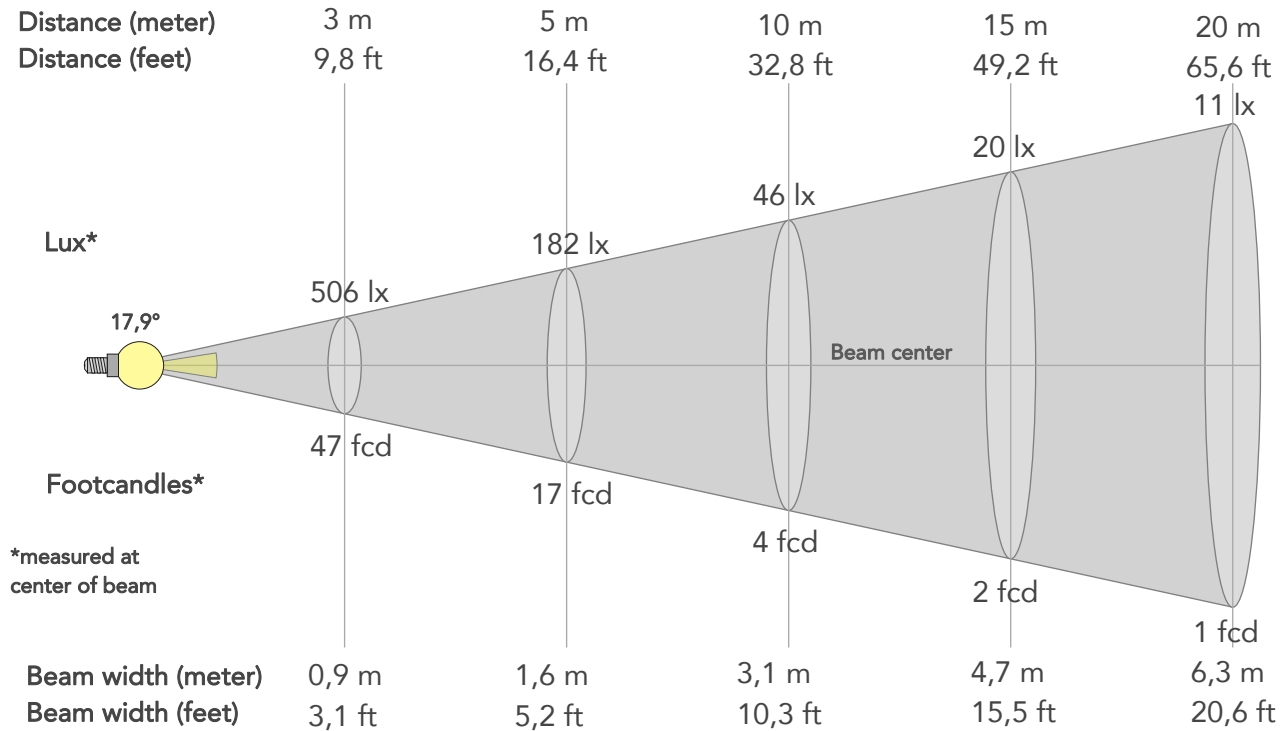
Rg 106,5
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	-1%	-2%
2	97	0%	1%
3	93	1%	4%
4	92	1%	4%
5	90	3%	4%
6	88	8%	4%
7	87	9%	0%
8	92	3%	-3%
9	94	-1%	-2%
10	94	-2%	2%
11	83	1%	10%
12	90	3%	6%
13	92	7%	3%
14	88	6%	3%
15	85	11%	-7%
16	93	4%	-3%



BEAM DETAILS

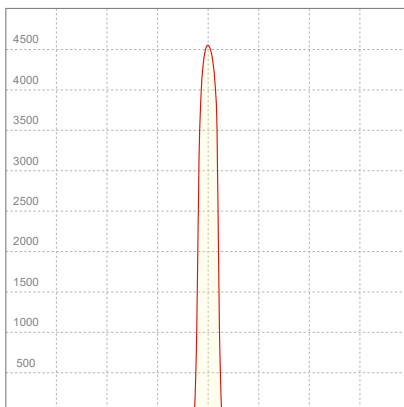
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17,9°	22,4°	23,7°	99,6%	99,4%



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	4550lx	1138lx	506lx	284lx	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.	0,3m	0,6m	0,9m	1,3m	1,6m	2,4m	3,1m	4,7m	6,3m	7,9m	9,4m	12,6m	15,7m
Beam wid.	1ft	2,1ft	3,1ft	4,1ft	5,2ft	7,7ft	10,3ft	15,5ft	20,6ft	25,8ft	30,9ft	41,2ft	51,5ft

LINEAR DISTRIBUTION DIAGRAM

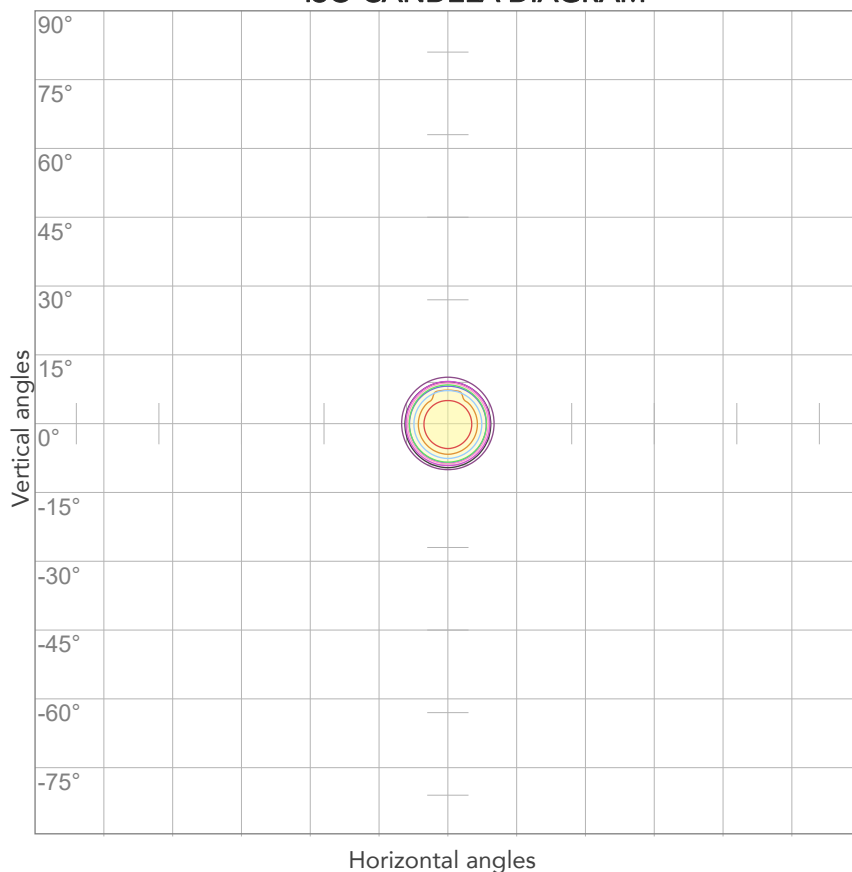


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,134A	28,6W	0,94	12lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



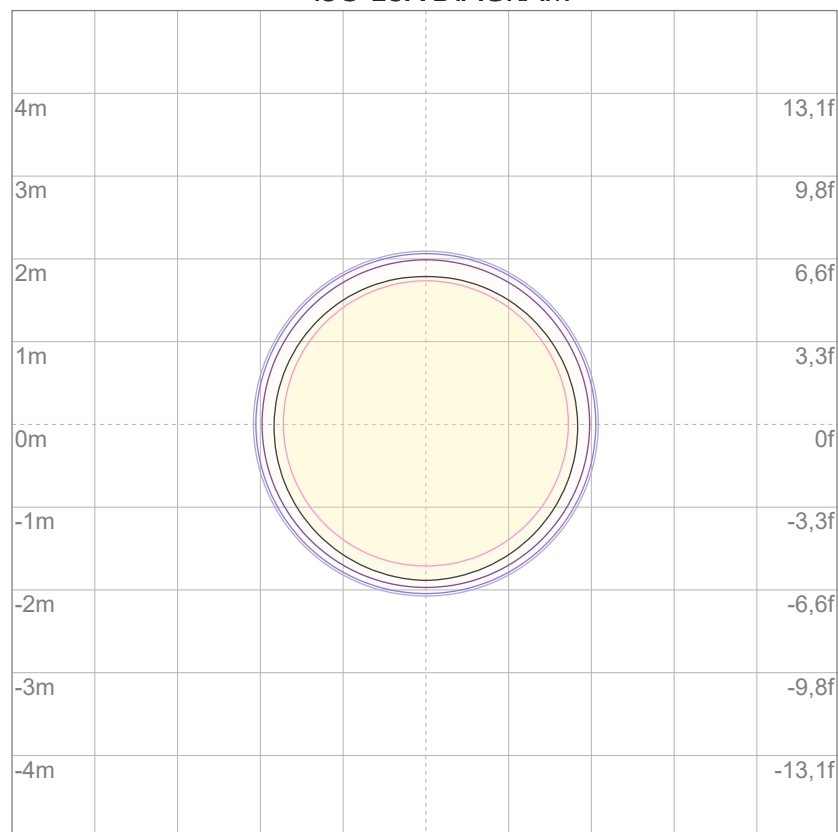
10%	455 cd
20%	910 cd
30%	1365 cd
40%	1820 cd
50%	2275 cd
60%	2730 cd
70%	3185 cd
80%	3640 cd

Conditions:

Number of c-planes: 2

Candela at center: 4550 cd

ISO LUX DIAGRAM



3%	1,37 lx
5%	2,28 lx
10%	4,55 lx
30%	13,7 lx
50%	22,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 45,5 lx

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



Total lumen output:

356 lm

Peak candela output:

15734 cd

Light quality:

CRI: 92,4

Color temperature:

6062 K

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 1020 Min Zoom

Target:

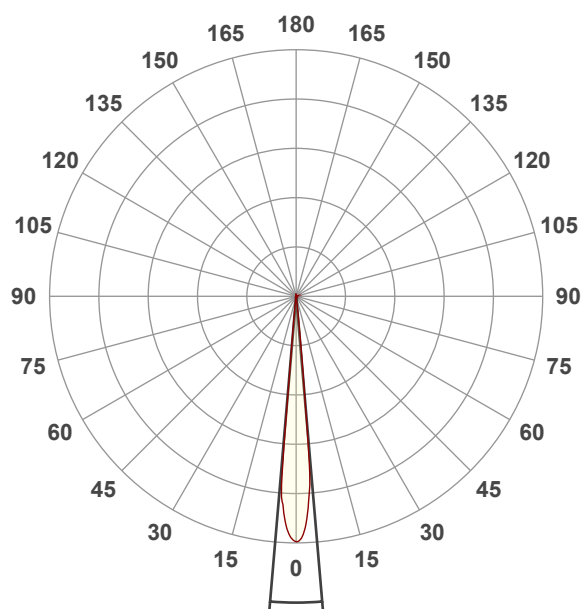
6000K

Operator:

Giacomo Matteo

Date and time:

14/06/2024 10:46:44

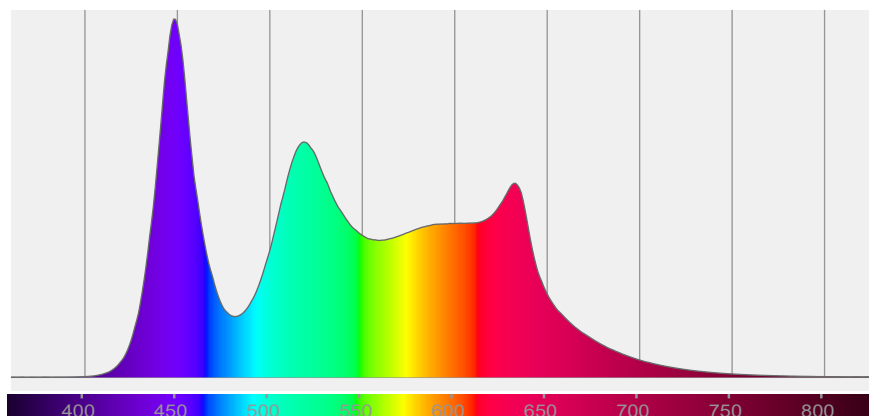


Beam angle 50%: 9,8°

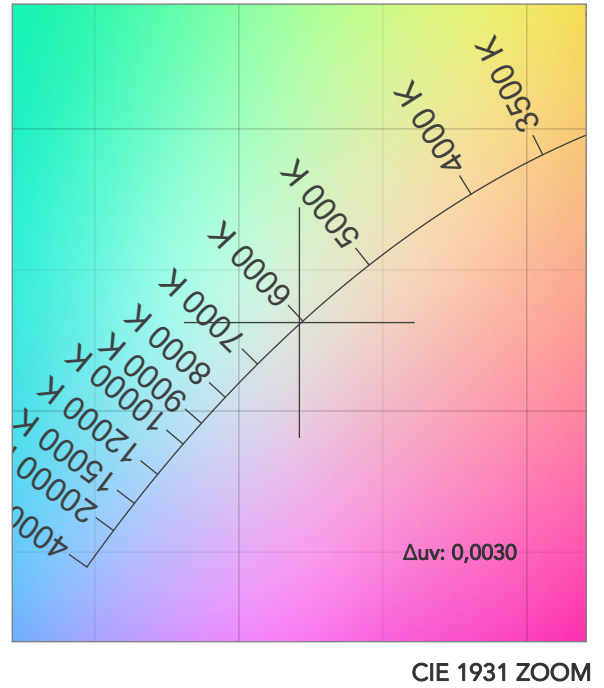
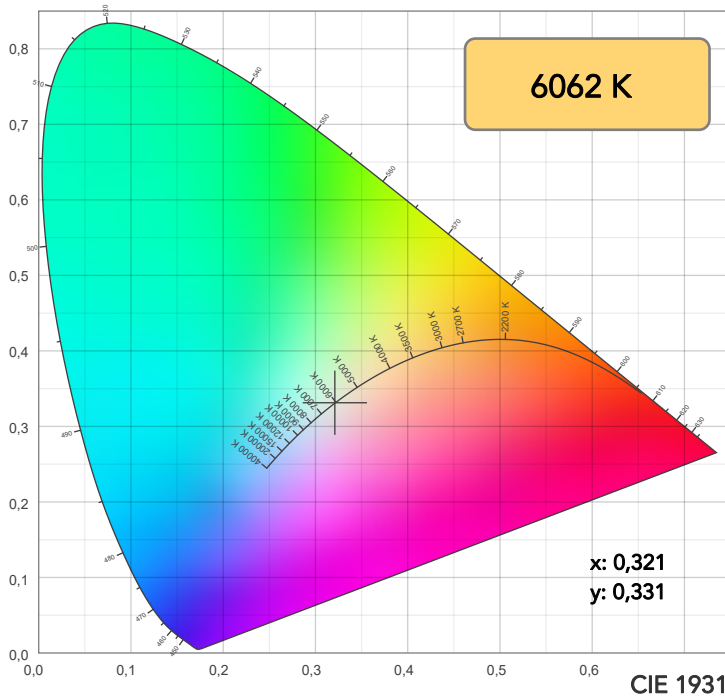
Field angle 10%: 11,6°

Cut off angle 2.5%: 12,7°

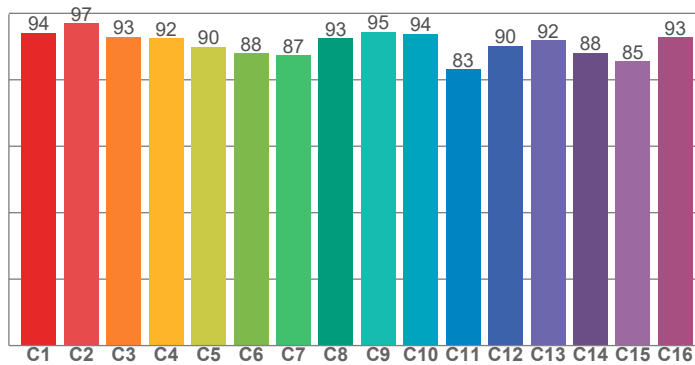
Spectra



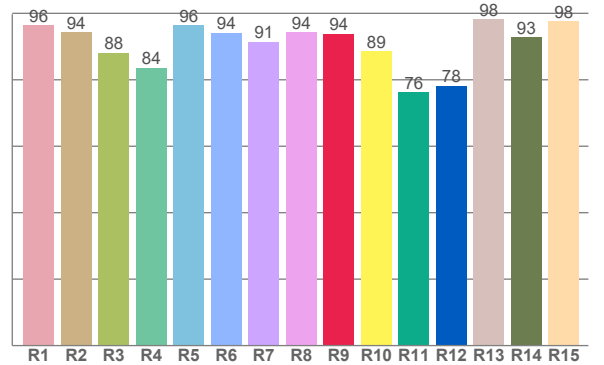
COLOR DETAILS



TM30: 90,8



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
96,5	94,3	88,1	83,6	96,3	94,2	91,5	94,4	93,9	88,6	76,2	78,2	98,1	92,9	97,7

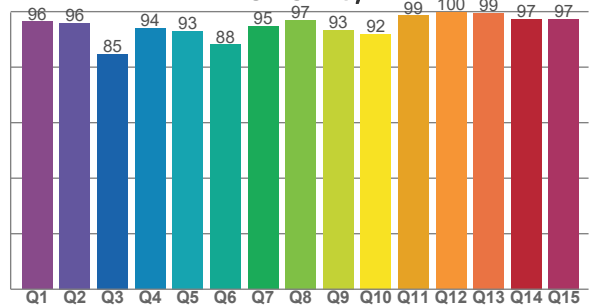
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,1	96,9	93,0	92,5	89,9	88,0	87,4	92,5	94,5	93,8	83,2	90,1	91,9	88,1	85,5	92,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,5	95,8	84,7	94,0	93,1	88,2	94,7	96,9	93,3	92,0	98,6	99,8	99,5	97,3	97,4

CQS: 93,4



COLOR PARAMETERS

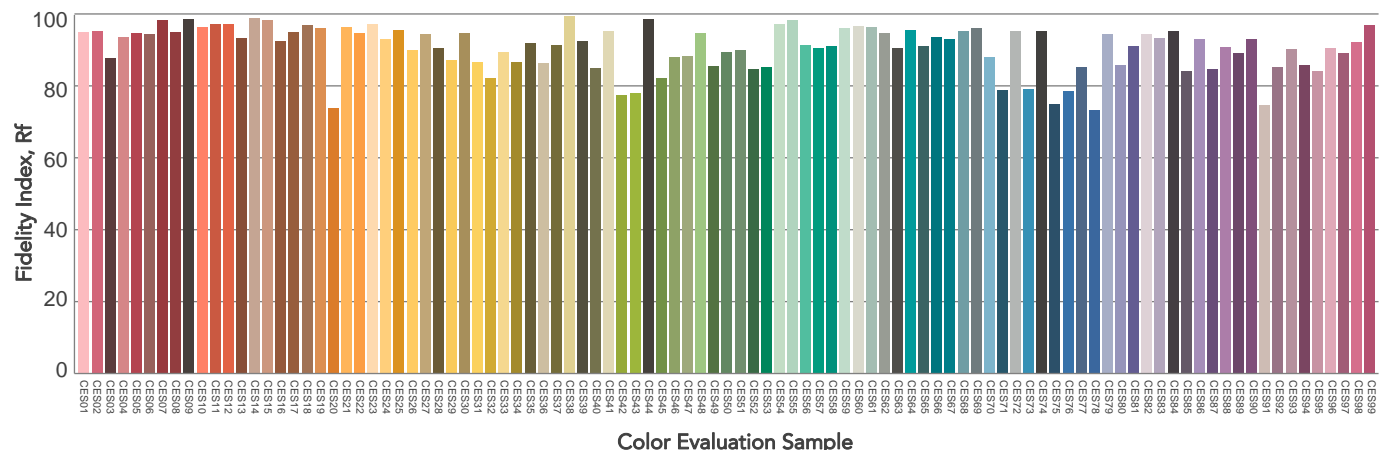
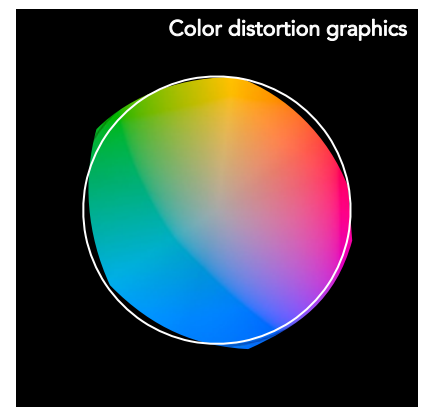
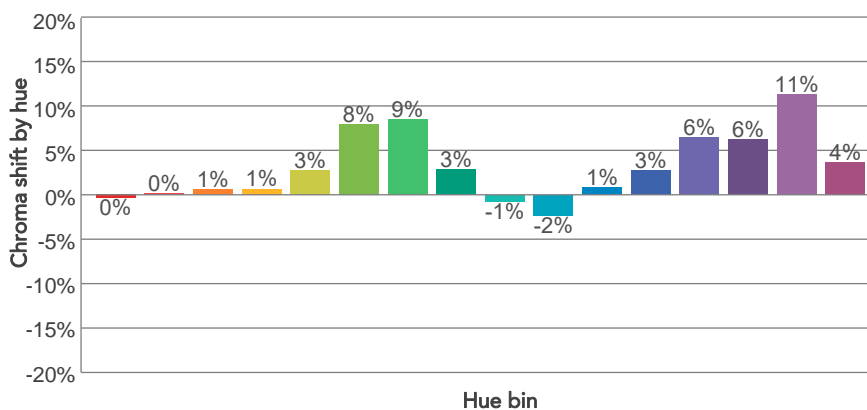
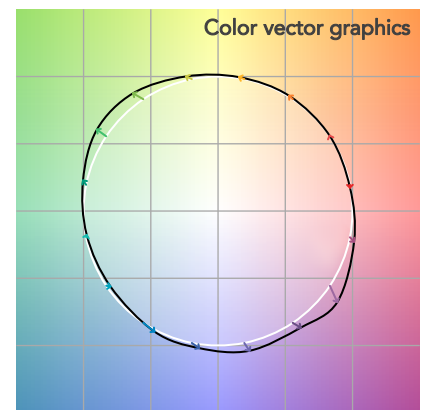
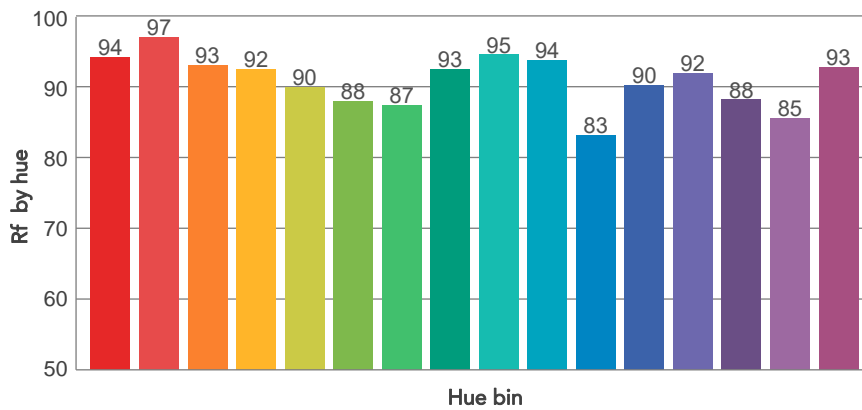
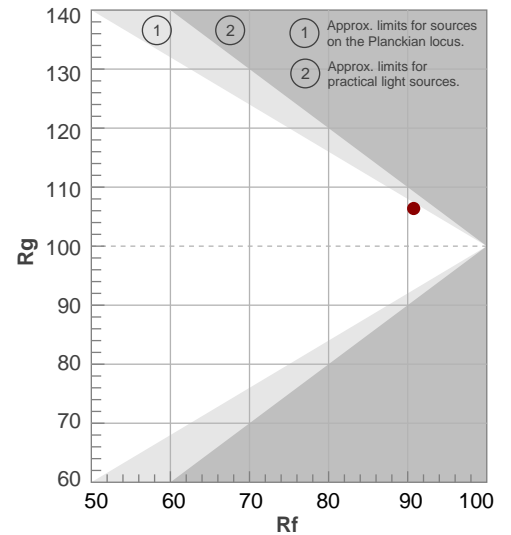
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6062 K	92,4	93,9	90,8	106,4	93,4	87	0,321	0,331	0,0030

TM30 DETAILS

Rf 90,8
Fidelity index Rf

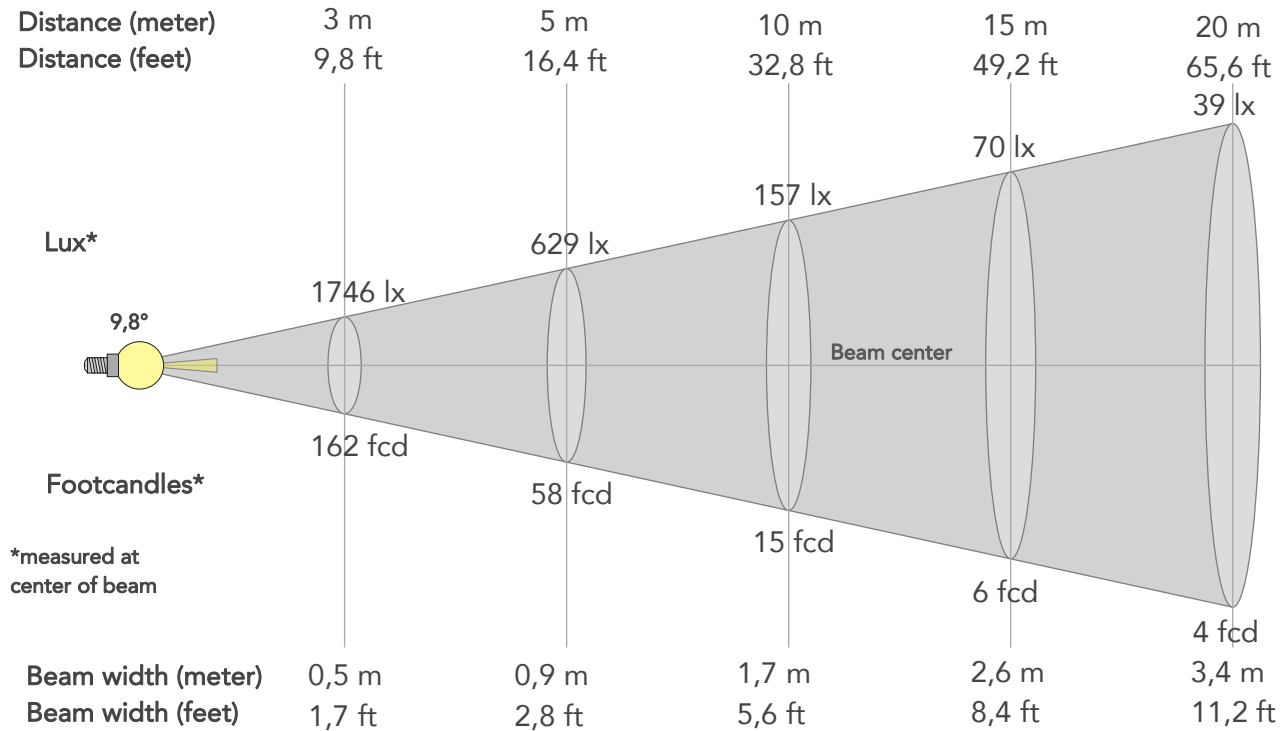
Rg 106,4
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	0%	-2%
2	97	0%	0%
3	93	1%	4%
4	92	1%	4%
5	90	3%	4%
6	88	8%	4%
7	87	9%	0%
8	93	3%	-3%
9	95	-1%	-2%
10	94	-2%	2%
11	83	1%	10%
12	90	3%	6%
13	92	6%	3%
14	88	6%	3%
15	85	11%	-7%
16	93	4%	-3%



BEAM DETAILS

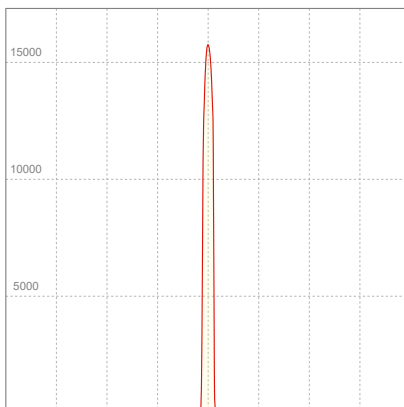
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
9,8°	11,6°	12,7°	99,1%	98,7%



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	15713lx	3928lx	1746lx	982lx	629lx	279lx	157lx	70lx	39lx	25lx	17lx	10lx	6lx
Footcand.	1460fcd	365fcd	162fcd	91fcd	58fcd	26fcd	15fcd	6fcd	4fcd	2fcd	2fcd	1fcd	1fcd
Beam wid.	0,2m	0,3m	0,5m	0,7m	0,9m	1,3m	1,7m	2,6m	3,4m	4,3m	5,1m	6,8m	8,5m
Beam wid.	0,6ft	1,1ft	1,7ft	2,2ft	2,8ft	4,2ft	5,6ft	8,4ft	11,2ft	14ft	16,8ft	22,4ft	28ft

LINEAR DISTRIBUTION DIAGRAM

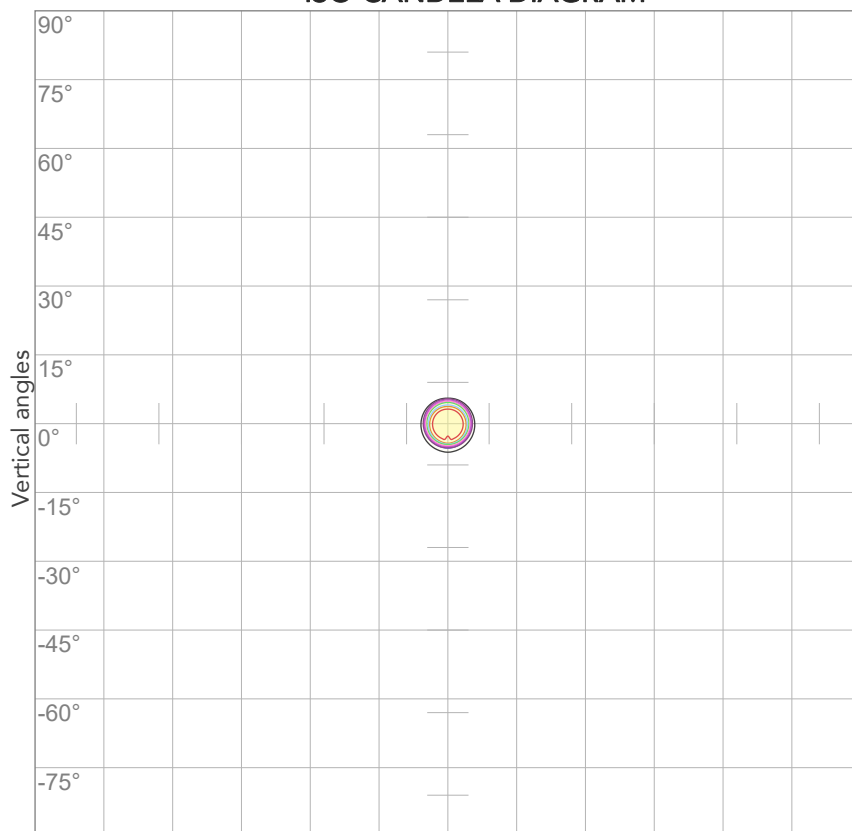


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,132A	28,0W	0,94	13lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



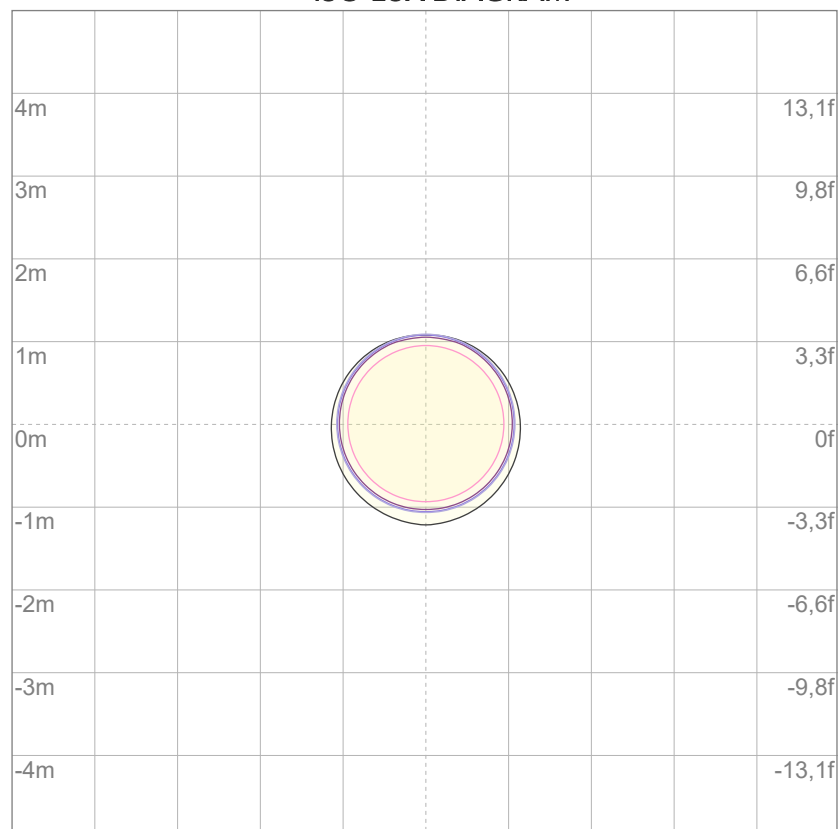
10%	1571 cd
20%	3143 cd
30%	4714 cd
40%	6285 cd
50%	7857 cd
60%	9428 cd
70%	10999 cd
80%	12571 cd

Conditions:

Number of c-planes: 2

Candela at center: 15713 cd

ISO LUX DIAGRAM



3%	4,71 lx
5%	7,86 lx
10%	15,7 lx
30%	47,1 lx
50%	78,6 lx

Conditions:

Number of c-planes: 2

Lux at center: 157 lx

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