

Photometric Test Report



EclDisplay UNFC

ZOOMABLE PROFILE LENS 20-40° HD

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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Min Zoom	78

Color temperature 6000K

Max Zoom	83
Min Zoom	88

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:

246 lm

Peak candela output:

1088 cd

Light quality:

CRI: 92,4

Color temperature:

6472 K

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 2040 Max Zoom

Target:

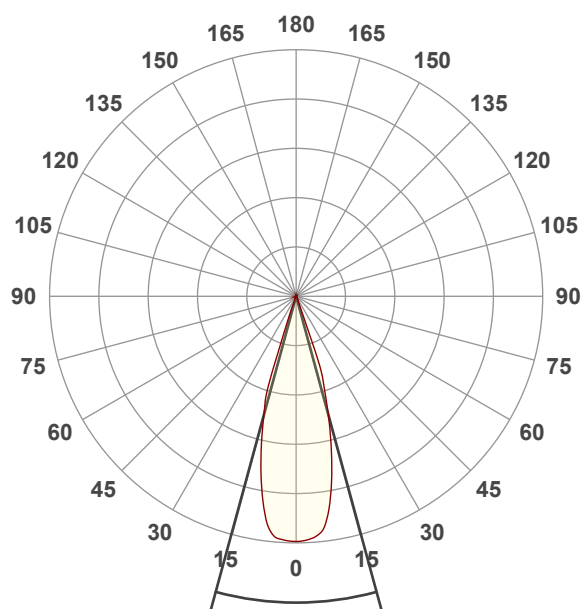
Full On

Operator:

Giacomo Matteo

Date and time:

14/06/2024 10:16:01

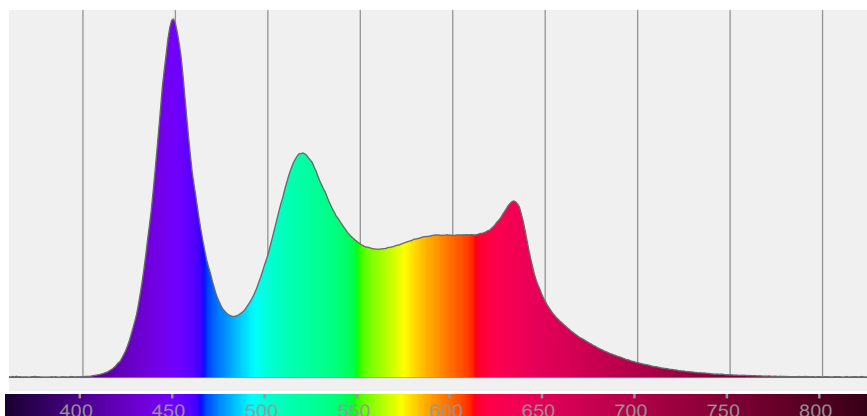


Beam angle 50%: 30,4°

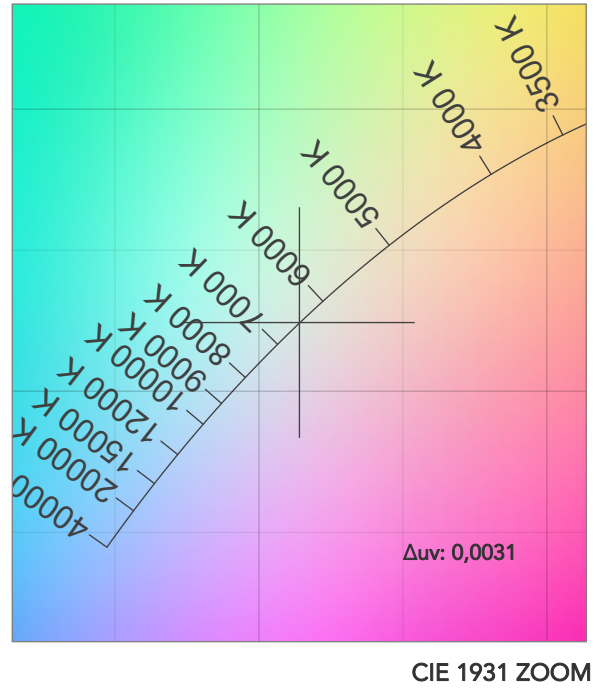
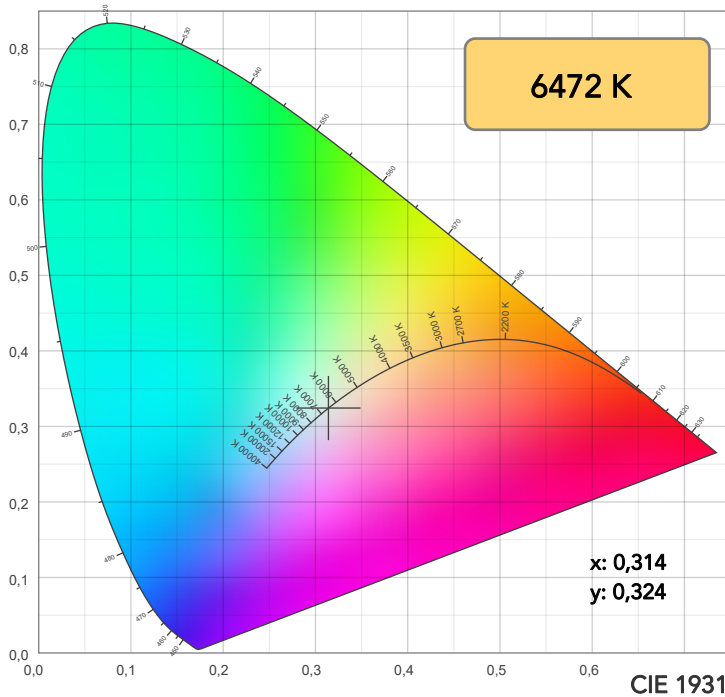
Field angle 10%: 39,5°

Cut off angle 2.5%: 42,5°

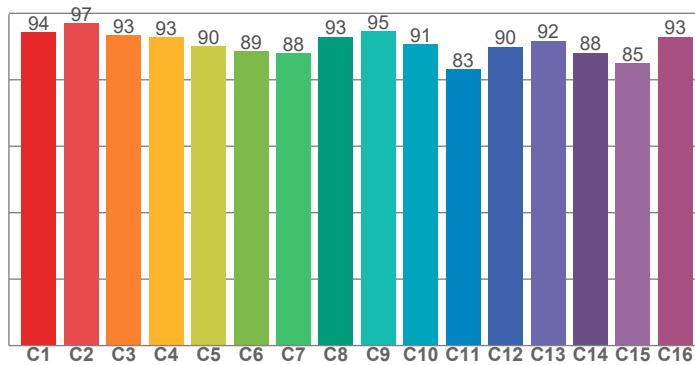
Spectra



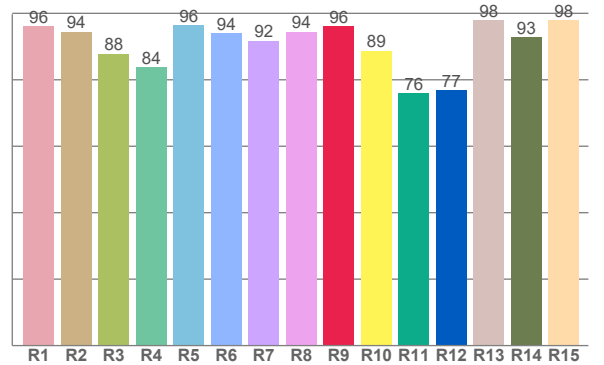
COLOR DETAILS



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
96,0	94,5	87,9	83,8	96,5	93,9	91,8	94,5	96,0	88,8	76,0	76,9	97,8	92,7	97,9

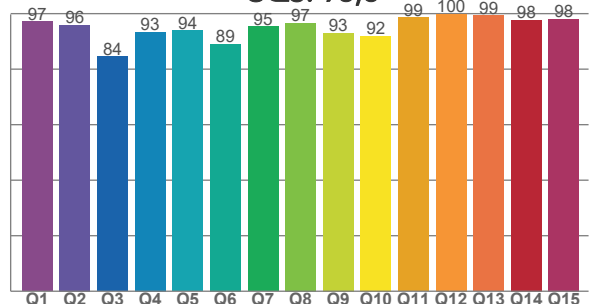
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,3	97,0	93,4	92,7	90,1	88,6	87,9	93,0	94,6	90,6	83,1	90,0	91,8	88,1	84,9	92,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,2	95,9	84,5	93,4	93,9	89,1	95,3	96,6	93,0	92,0	98,6	99,9	99,3	97,7	98,1

CQS: 93,6



COLOR PARAMETERS

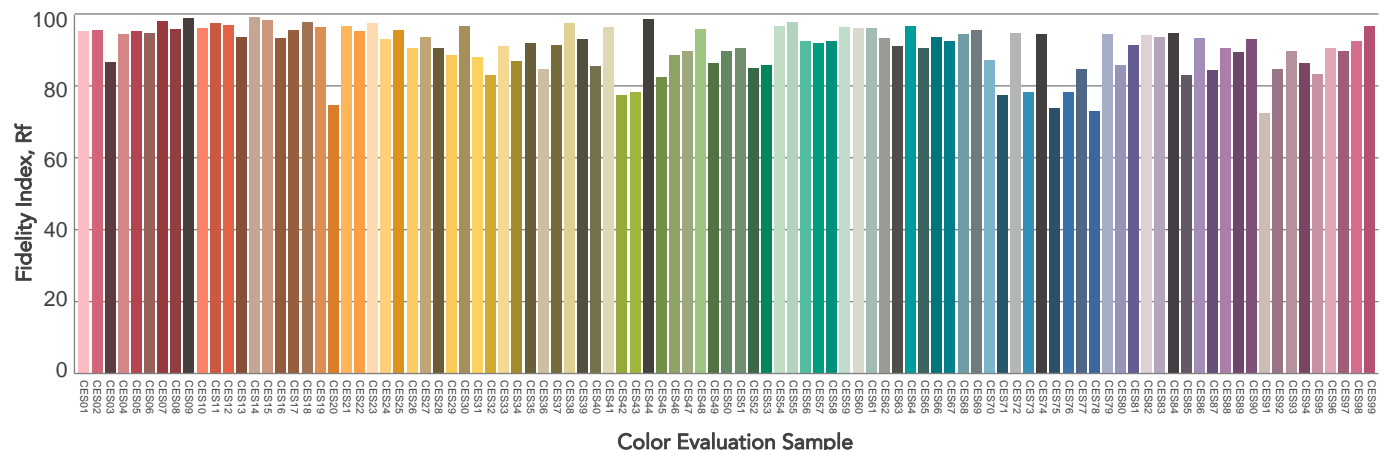
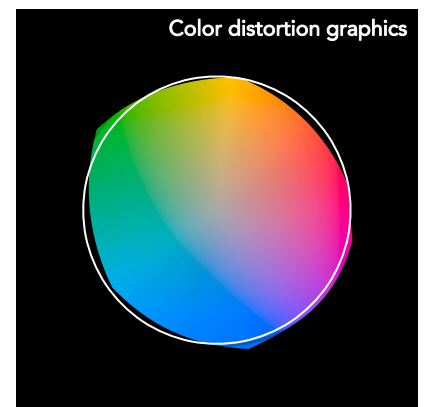
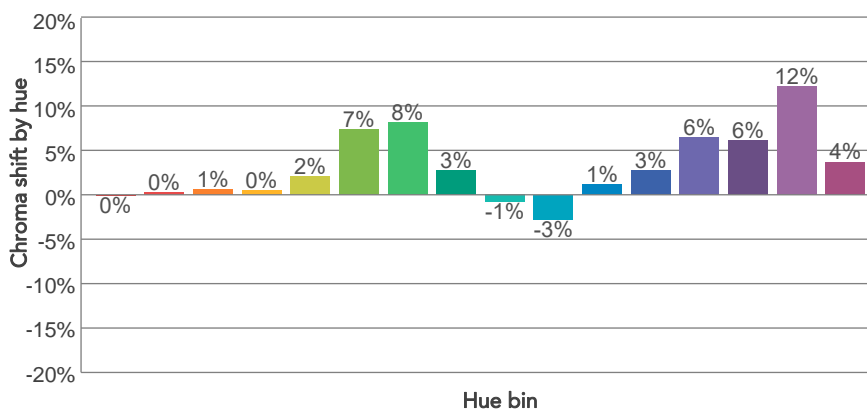
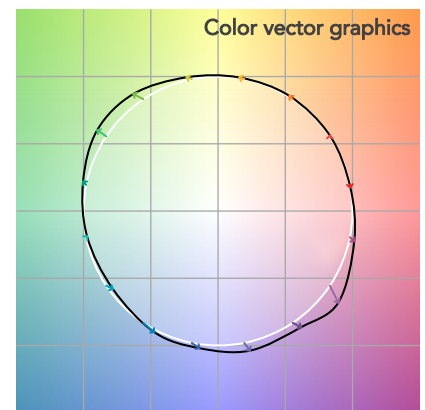
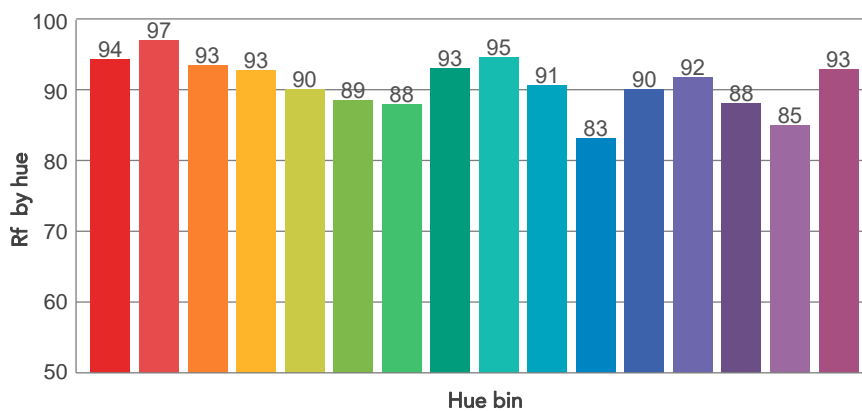
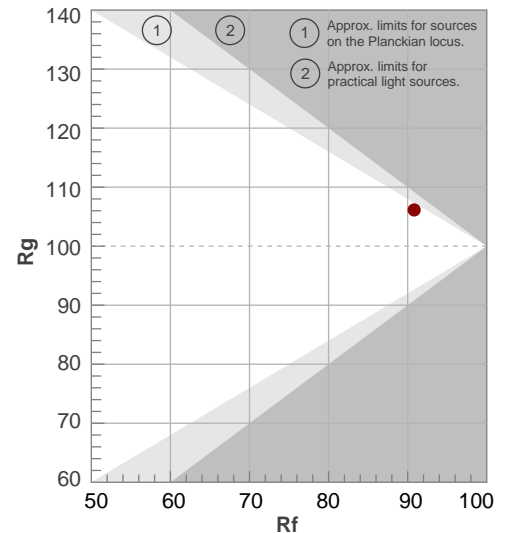
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6472 K	92,4	96,0	90,8	106,1	93,6	88	0,314	0,324	0,0031

TM30 DETAILS

Rf 90,8
Fidelity index Rf

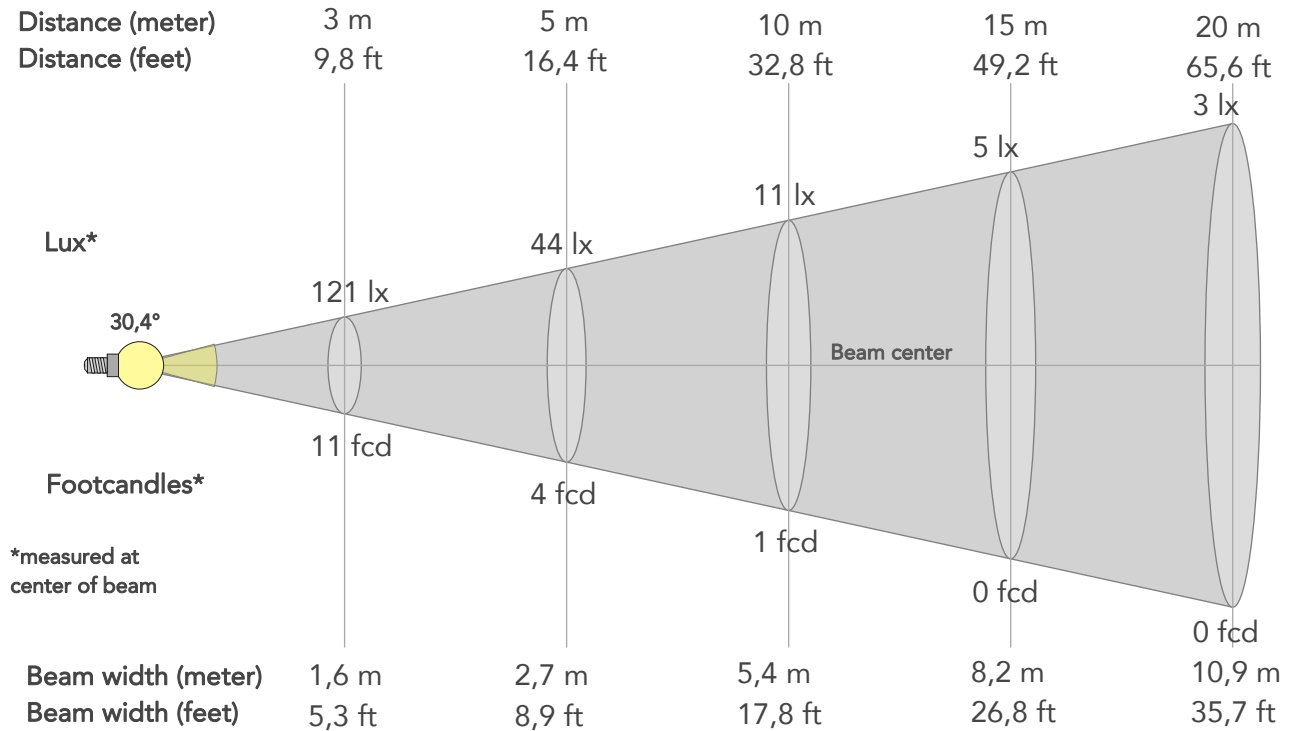
Rg 106,1
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	0%	-2%
2	97	0%	0%
3	93	1%	3%
4	93	0%	4%
5	90	2%	4%
6	89	7%	4%
7	88	8%	0%
8	93	3%	-2%
9	95	-1%	-1%
10	91	-3%	5%
11	83	1%	11%
12	90	3%	6%
13	92	6%	3%
14	88	6%	3%
15	85	12%	-7%
16	93	4%	-2%



BEAM DETAILS

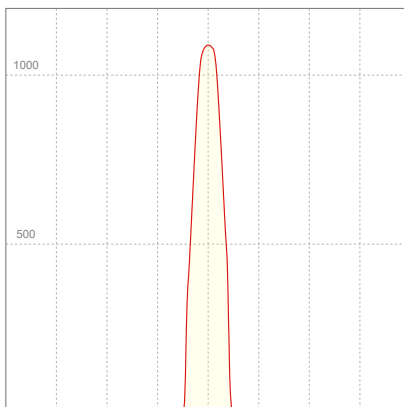
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
30,4°	39,5°	42,5°	99,1%	98,7%



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	1088lx	272lx	121lx	68lx	44lx	19lx	11lx	5lx	3lx	2lx	1lx	1lx	0lx
Footcand.	101fcd	25fcd	11fcd	6fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1,1m	1,6m	2,2m	2,7m	4,1m	5,4m	8,2m	10,9m	13,6m	16,3m	21,8m	27,2m
Beam wid.	1,8ft	3,6ft	5,3ft	7,1ft	8,9ft	13,4ft	17,8ft	26,8ft	35,7ft	44,6ft	53,5ft	71,4ft	89,2ft

LINEAR DISTRIBUTION DIAGRAM

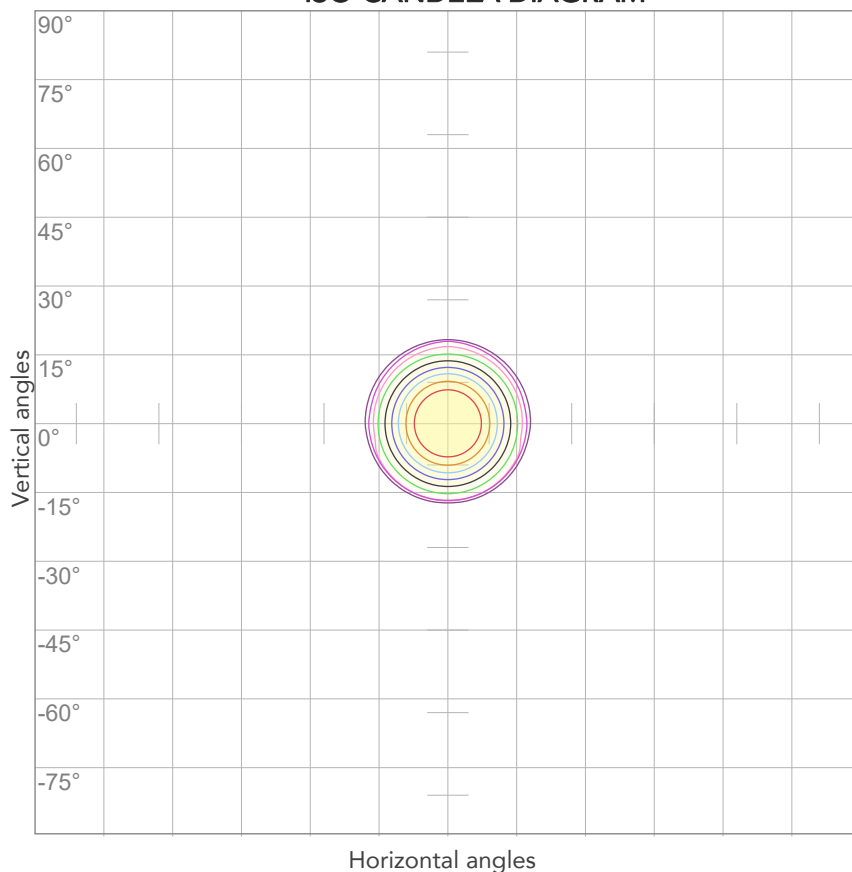


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,132A	28,0W	0,94	9lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



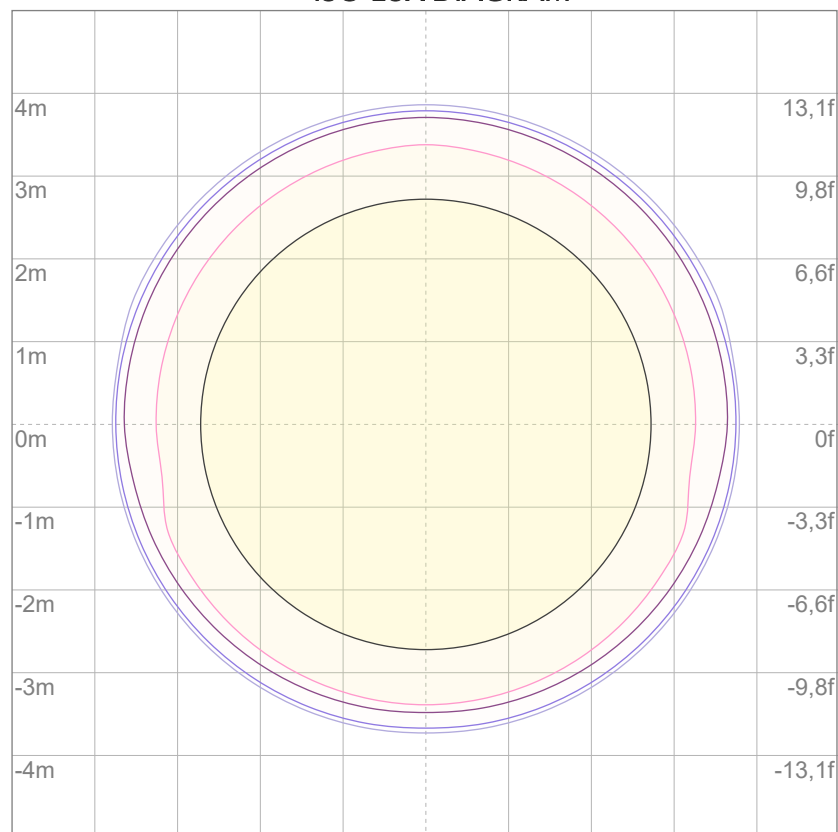
10%	109 cd
20%	218 cd
30%	326 cd
40%	435 cd
50%	544 cd
60%	653 cd
70%	762 cd
80%	871 cd

Conditions:

Number of c-planes: 2

Candela at center: 1088 cd

ISO LUX DIAGRAM



3%	0,326 lx
5%	0,544 lx
10%	1,09 lx
30%	3,26 lx
50%	5,44 lx

Conditions:

Number of c-planes: 2

Lux at center: 10,9 lx

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



Total lumen output:

270 lm

Peak candela output:

4420 cd

Light quality:

CRI: 91,8

Color temperature:

6489 K

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 2040 Min Zoom

Target:

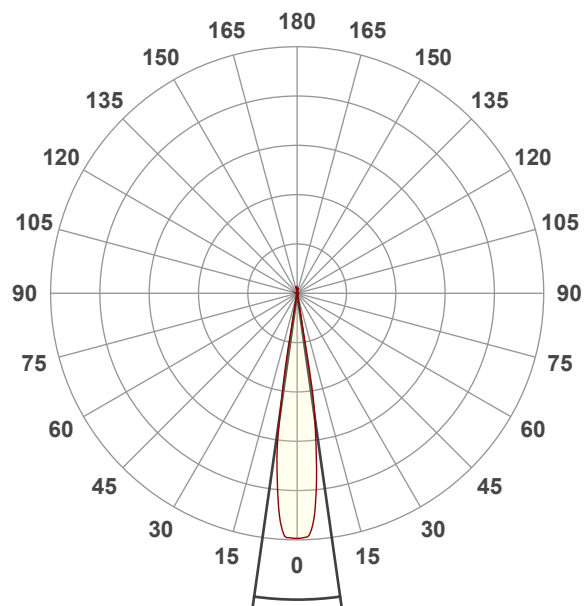
Full On

Operator:

Giacomo Matteo

Date and time:

14/06/2024 09:31:19

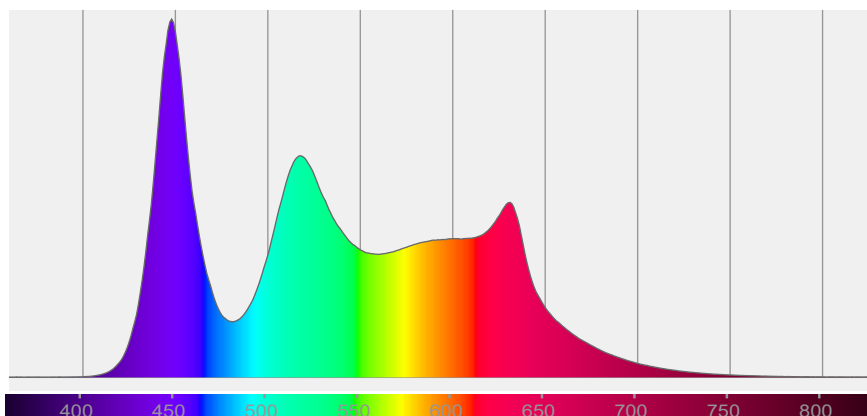


Beam angle 50%: 16,1°

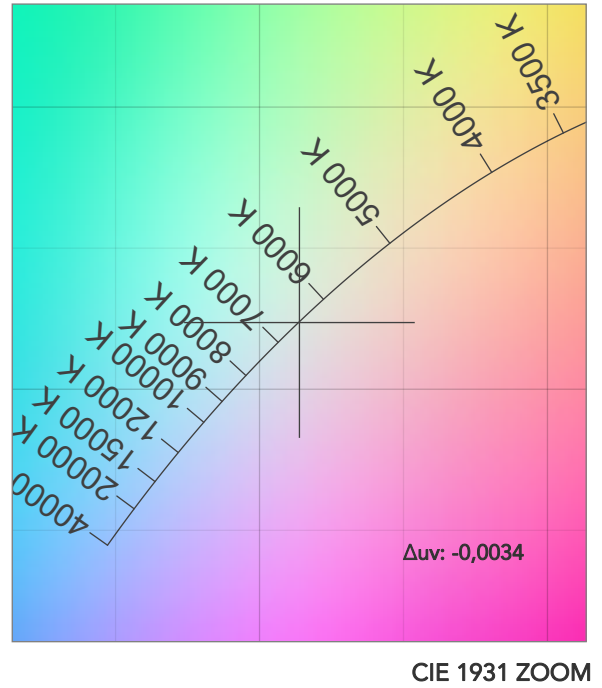
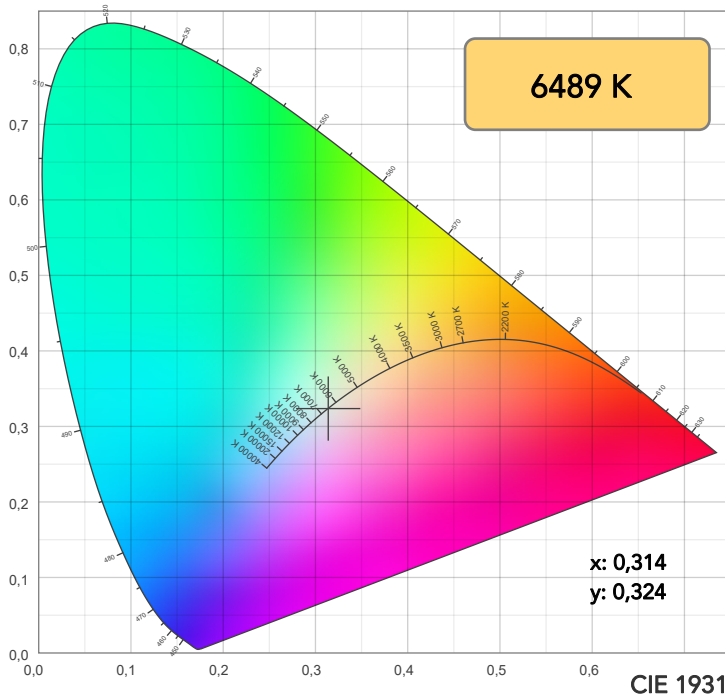
Field angle 10%: 20,1°

Cut off angle 2.5%: 20,8°

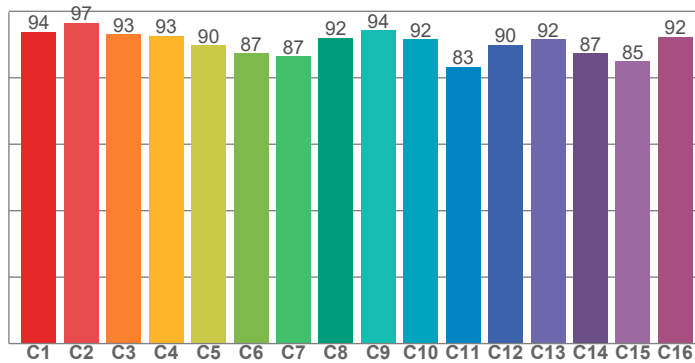
Spectra



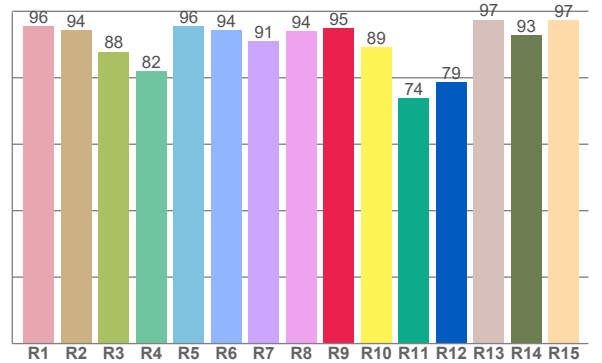
COLOR DETAILS



TM30: 90,5



CRI: 91,8 (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
95,6	94,4	87,8	82,0	95,6	94,3	91,0	94,0	94,9	89,1	73,9	78,6	97,5	92,8	97,3

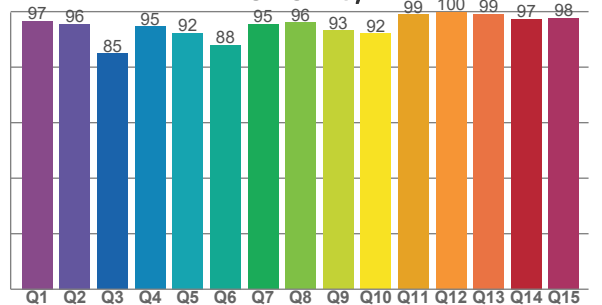
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,8	96,6	93,1	92,6	89,8	87,4	86,5	91,9	94,2	91,5	83,3	89,8	91,6	87,4	84,9	92,4

CQS Q values

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

CQS: 93,4



COLOR PARAMETERS

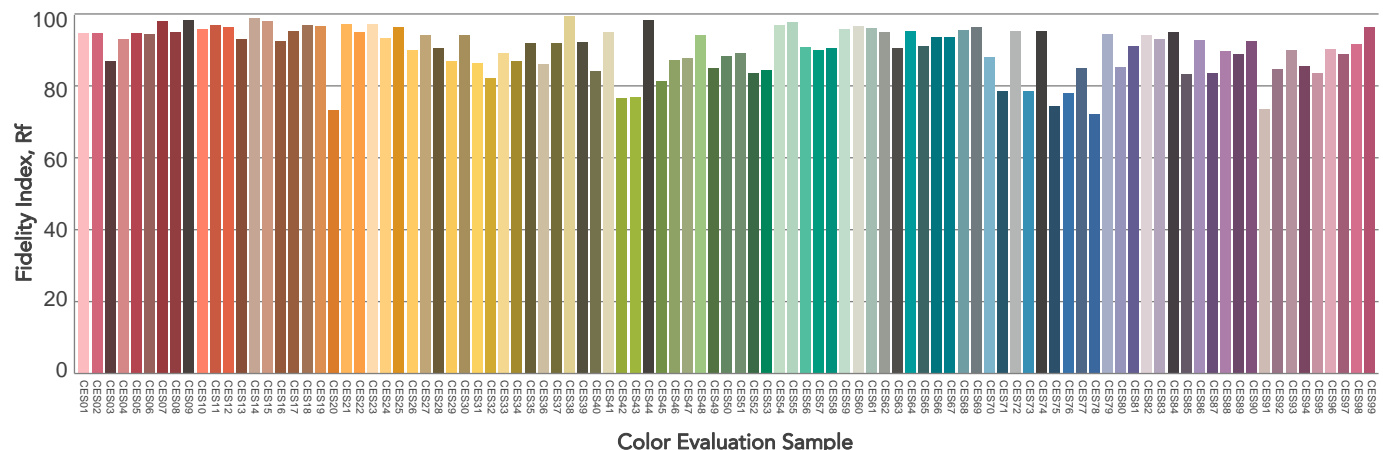
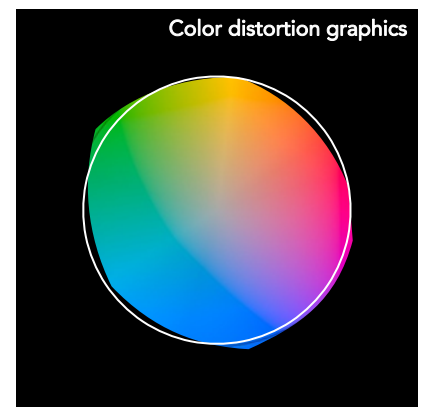
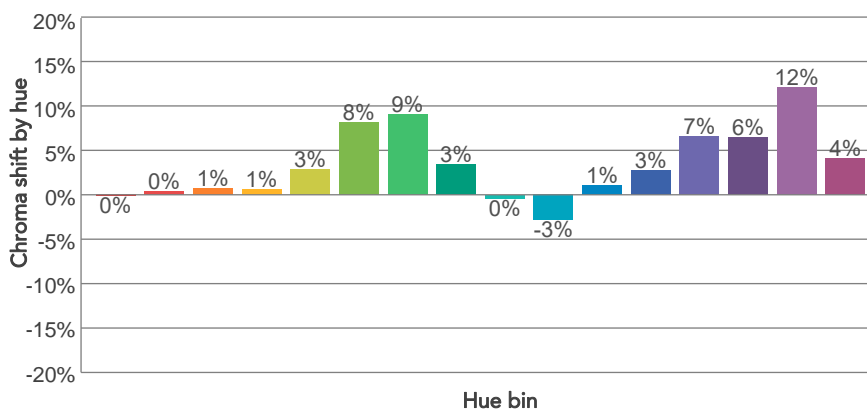
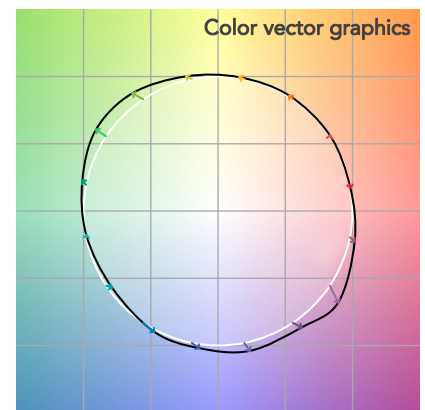
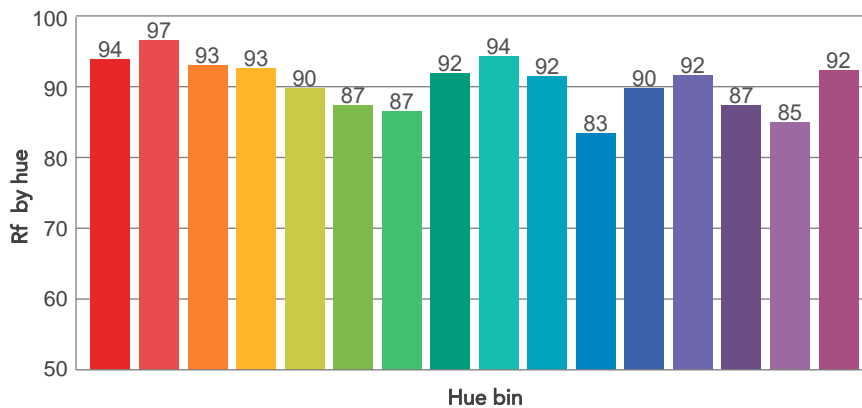
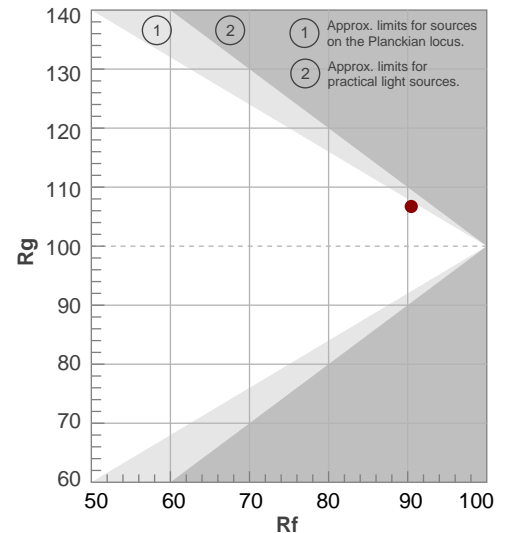
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6489 K	91,8	94,9	90,5	106,7	93,4	86	0,314	0,324	-0,0034

TM30 DETAILS

Rf 90,5
Fidelity index Rf

Rg 106,7
Gammut index

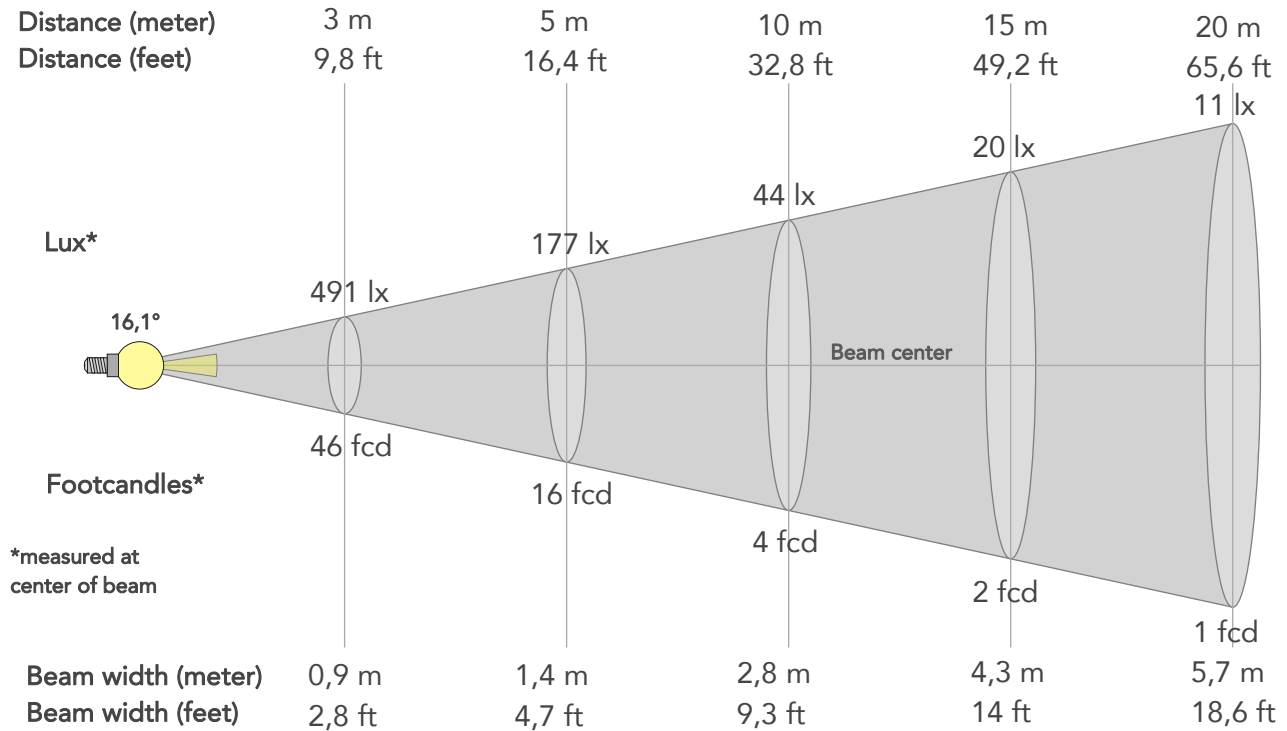
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	0%	-2%
2	97	0%	0%
3	93	1%	4%
4	93	1%	4%
5	90	3%	4%
6	87	8%	4%
7	87	9%	0%
8	92	3%	-3%
9	94	0%	-2%
10	92	-3%	4%
11	83	1%	10%
12	90	3%	6%
13	92	7%	3%
14	87	6%	4%
15	85	12%	-7%
16	92	4%	-2%



BEAM DETAILS



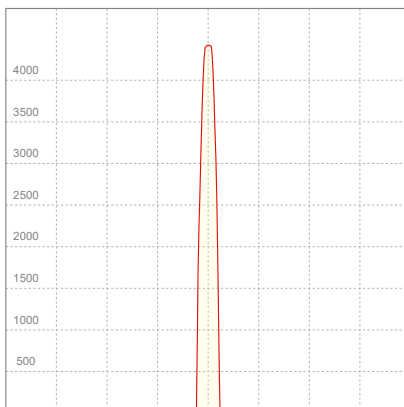
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16,1°	20,1°	20,8°	99,2%	98,8%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	4420lx	1105lx	491lx	276lx	177lx	79lx	44lx	20lx	11lx	7lx	5lx	3lx	2lx
Footcand.	411fcd	103fcd	46fcd	26fcd	16fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,9m	1,1m	1,4m	2,1m	2,8m	4,3m	5,7m	7,1m	8,5m	11,3m	14,2m
Beam wid.	0,9ft	1,9ft	2,8ft	3,7ft	4,7ft	7ft	9,3ft	14ft	18,6ft	23,3ft	27,9ft	37,2ft	46,5ft

LINEAR DISTRIBUTION DIAGRAM

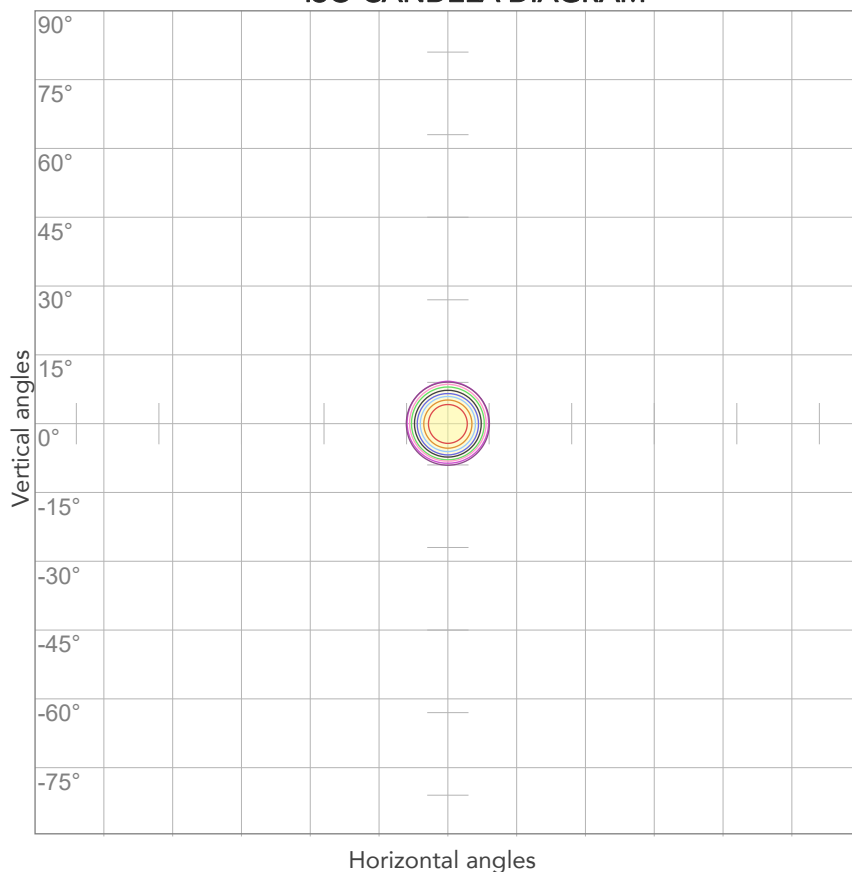


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,138A	29,4W	0,94	9lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



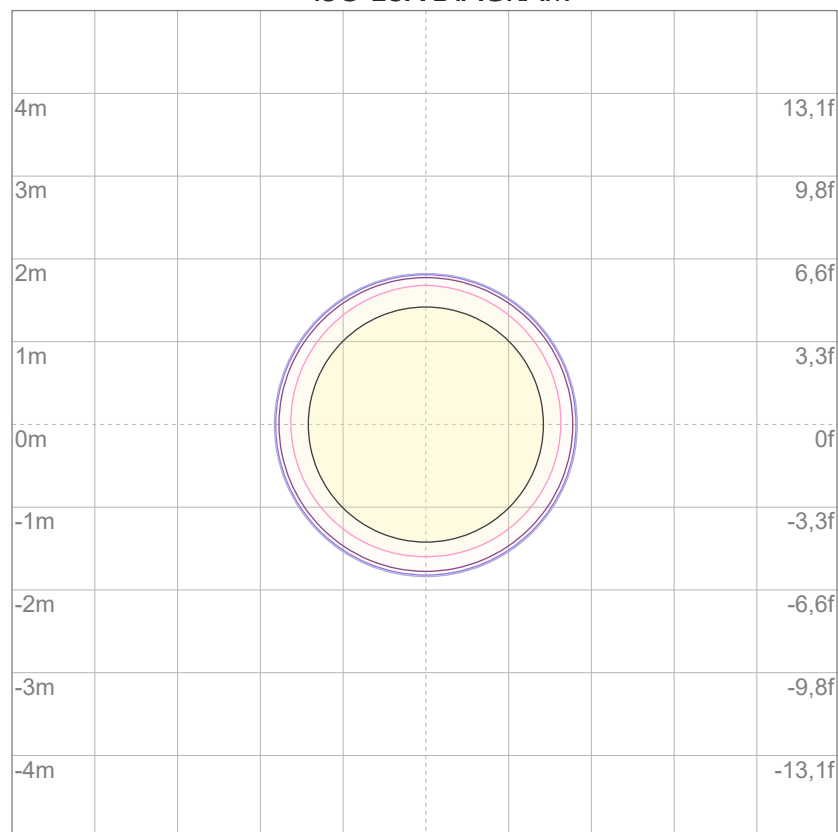
10%	442 cd
20%	884 cd
30%	1326 cd
40%	1768 cd
50%	2210 cd
60%	2652 cd
70%	3094 cd
80%	3536 cd

Conditions:

Number of c-planes: 2

Candela at center: 4420 cd

ISO LUX DIAGRAM



3%	1,33 lx
5%	2,21 lx
10%	4,42 lx
30%	13,3 lx
50%	22,1 lx

Conditions:

Number of c-planes: 2

Lux at center: 44,2 lx

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



Total lumen output:

63,9 lm

Peak candela output:

280 cd

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 2040 Max Zoom

Target:

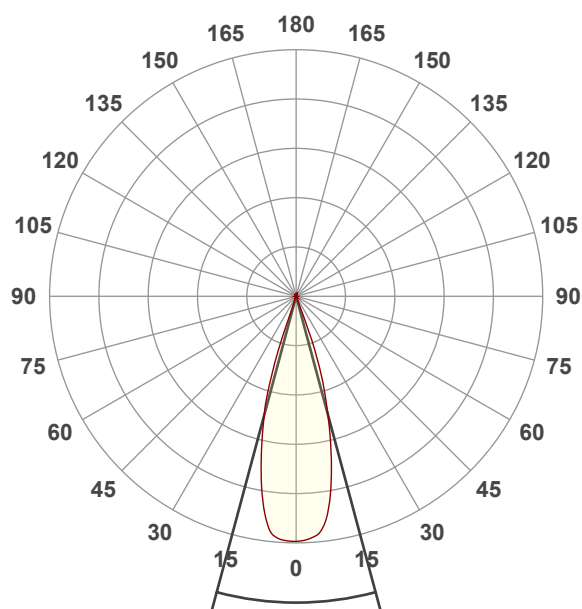
Red

Operator:

Giacomo Matteo

Date and time:

14/06/2024 10:17:38

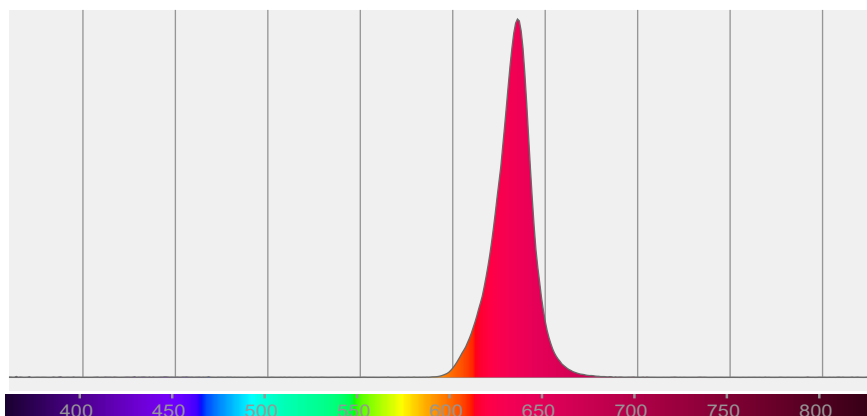


Beam angle 50%: 30,1°

Field angle 10%: 40,1°

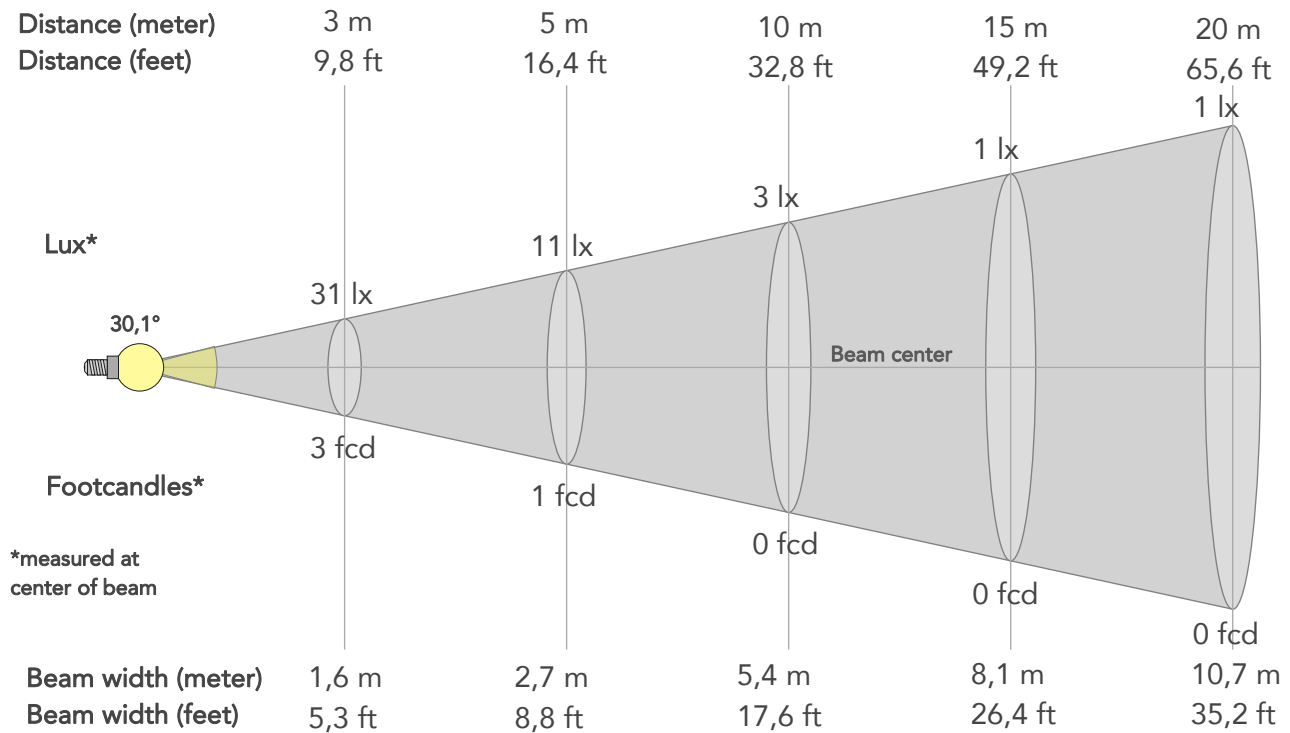
Cut off angle 2.5%: 41,6°

Spectra



BEAM DETAILS

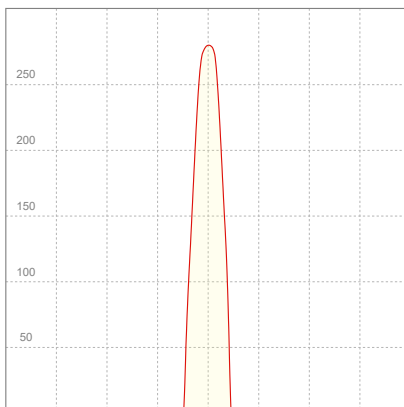
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
30,1°	40,1°	41,6°	97,7%	96,8%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	280lx	70lx	31lx	17lx	11lx	5lx	3lx	1lx	1lx	0lx	0lx	0lx	0lx
Footcand.	26fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1,1m	1,6m	2,1m	2,7m	4m	5,4m	8,1m	10,7m	13,4m	16,1m	21,5m	26,9m
Beam wid.	1,8ft	3,5ft	5,3ft	7ft	8,8ft	13,2ft	17,6ft	26,4ft	35,2ft	44ft	52,8ft	70,5ft	88,1ft

LINEAR DISTRIBUTION DIAGRAM

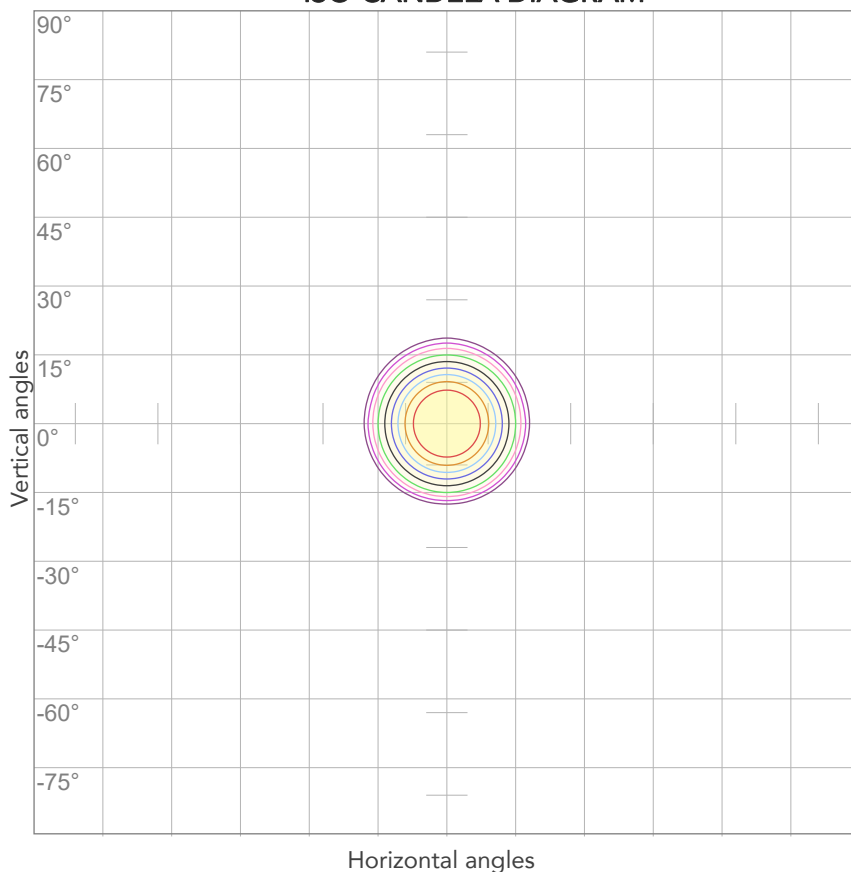


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,064A	11,1W	0,76	6lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



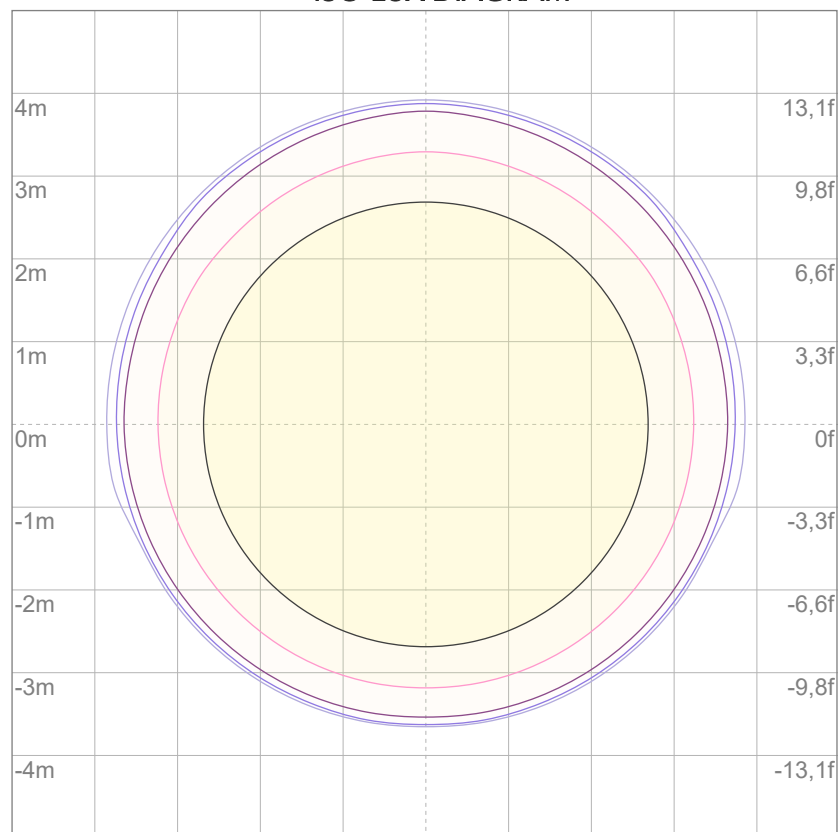
10%	28 cd
20%	56 cd
30%	84 cd
40%	112 cd
50%	140 cd
60%	168 cd
70%	196 cd
80%	224 cd

Conditions:

Number of c-planes: 2

Candela at center: 280 cd

ISO LUX DIAGRAM



3%	84,0m lx
5%	0,140 lx
10%	0,280 lx
30%	0,840 lx
50%	1,40 lx

Conditions:

Number of c-planes: 2

Lux at center: 2,80 lx

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



Total lumen output:

82,3 lm

Peak candela output:

1335 cd

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 2040 Min Zoom

Target:

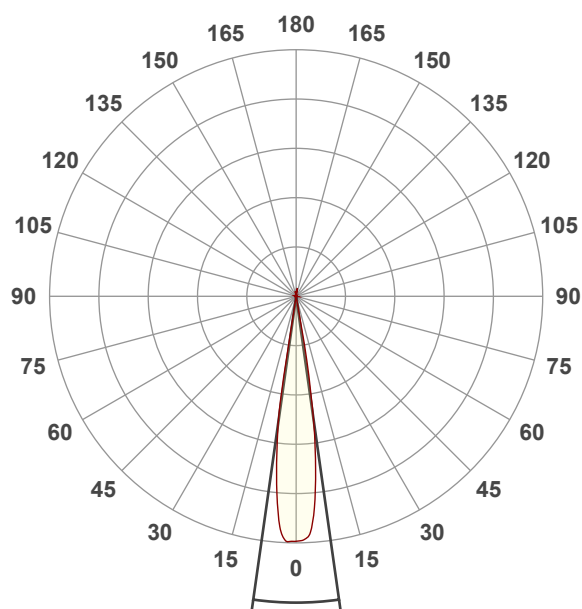
Red

Operator:

Giacomo Matteo

Date and time:

14/06/2024 09:33:23

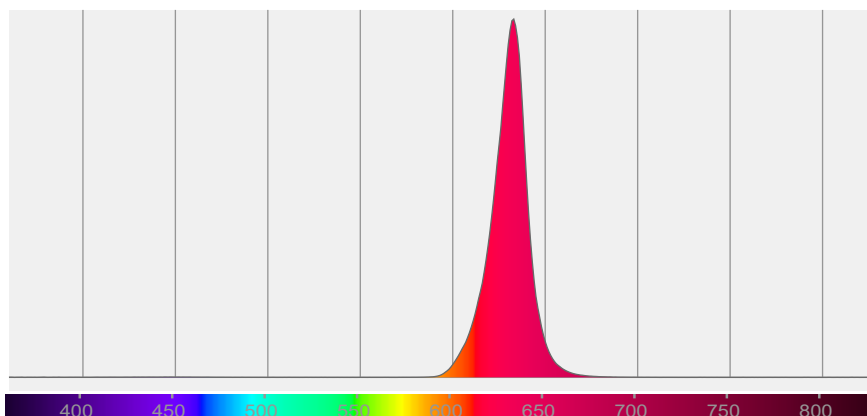


Beam angle 50%: 16,1°

Field angle 10%: 20,1°

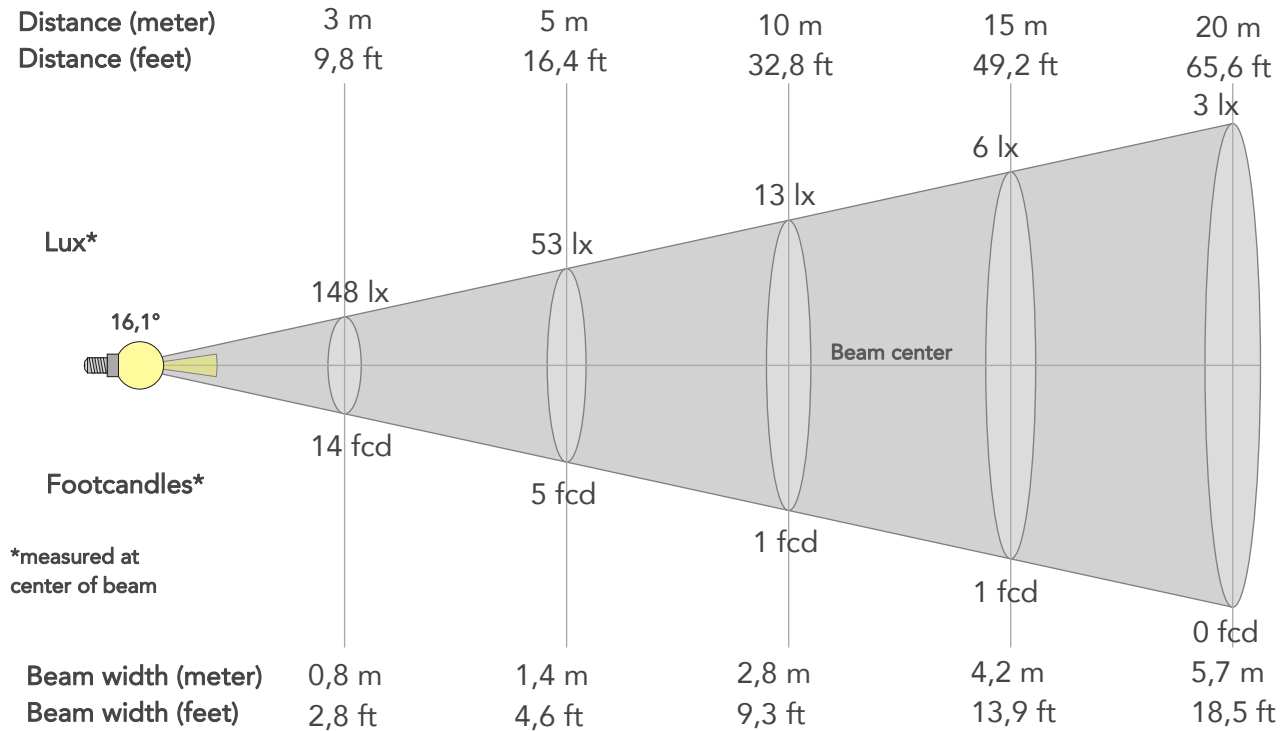
Cut off angle 2.5%: 20,8°

Spectra



BEAM DETAILS

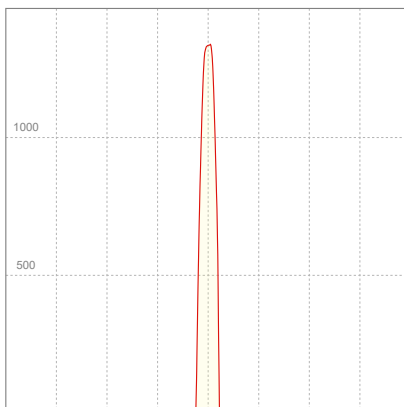
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16,1°	20,1°	20,8°	97,9%	97,0%



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	1334lx	333lx	148lx	83lx	53lx	24lx	13lx	6lx	3lx	2lx	1lx	1lx	1lx
Footcand.	124fcd	31fcd	14fcd	8fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,8m	1,1m	1,4m	2,1m	2,8m	4,2m	5,7m	7,1m	8,5m	11,3m	14,1m
Beam wid.	0,9ft	1,9ft	2,8ft	3,7ft	4,6ft	7ft	9,3ft	13,9ft	18,5ft	23,2ft	27,8ft	37,1ft	46,4ft

LINEAR DISTRIBUTION DIAGRAM

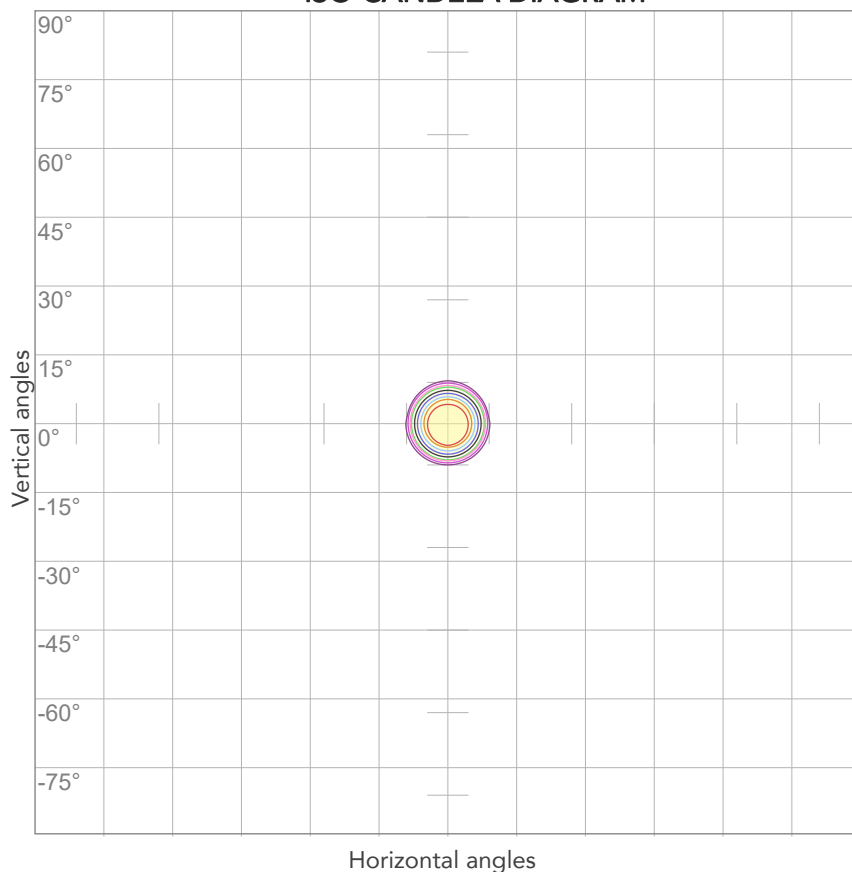


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,073A	12,5W	0,75	7lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



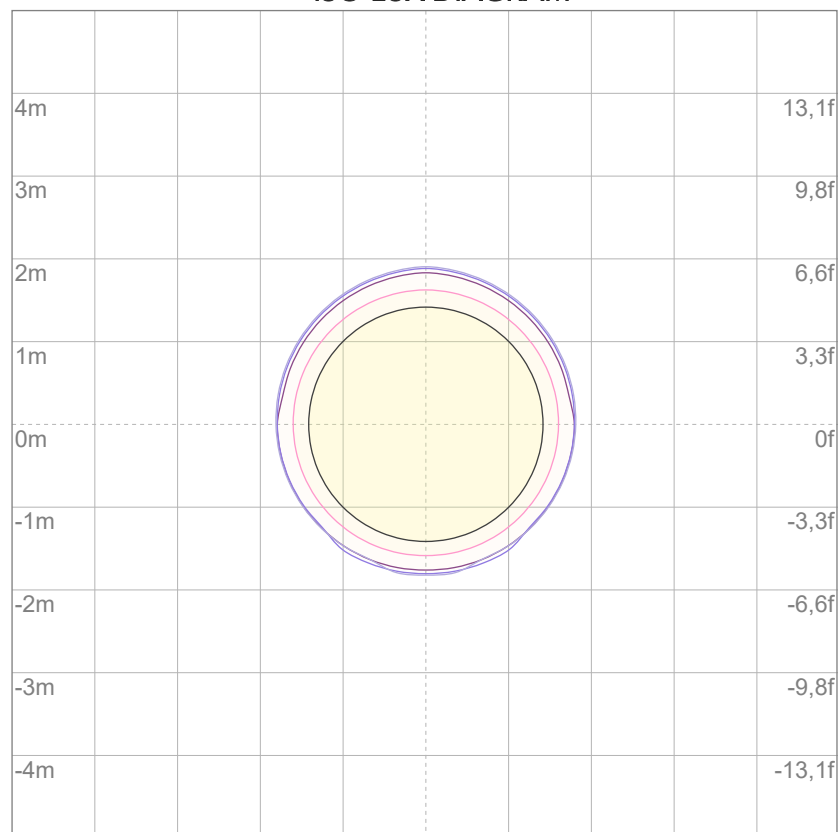
10%	133 cd
20%	267 cd
30%	400 cd
40%	533 cd
50%	667 cd
60%	800 cd
70%	934 cd
80%	1067 cd

Conditions:

Number of c-planes: 2

Candela at center: 1334 cd

ISO LUX DIAGRAM



3%	0,400 lx
5%	0,667 lx
10%	1,33 lx
30%	4,00 lx
50%	6,67 lx

Conditions:

Number of c-planes: 2

Lux at center: 13,3 lx

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



Total lumen output:

136 lm

Peak candela output:

598 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 2040 Max Zoom

Target:

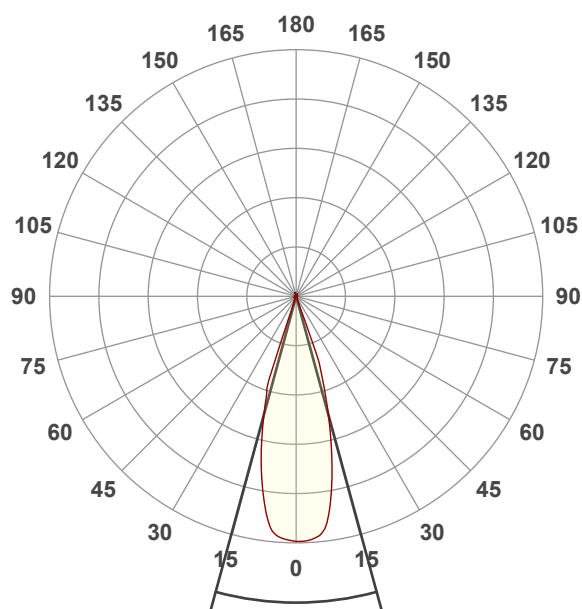
Green

Operator:

Giacomo Matteo

Date and time:

14/06/2024 10:19:20

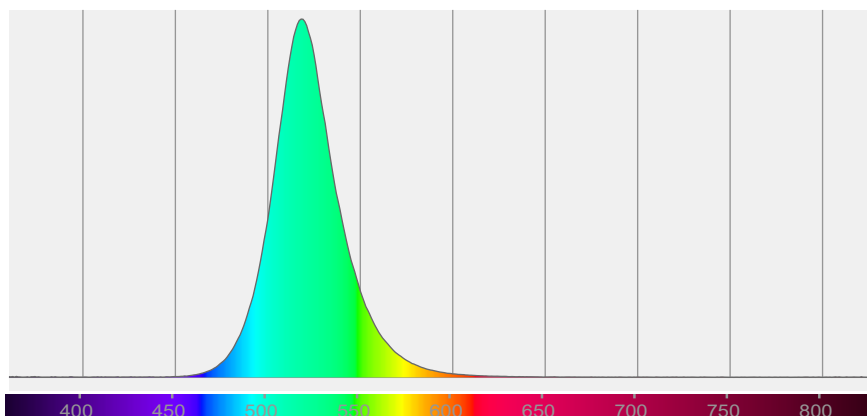


Beam angle 50%: 30,5°

Field angle 10%: 39,6°

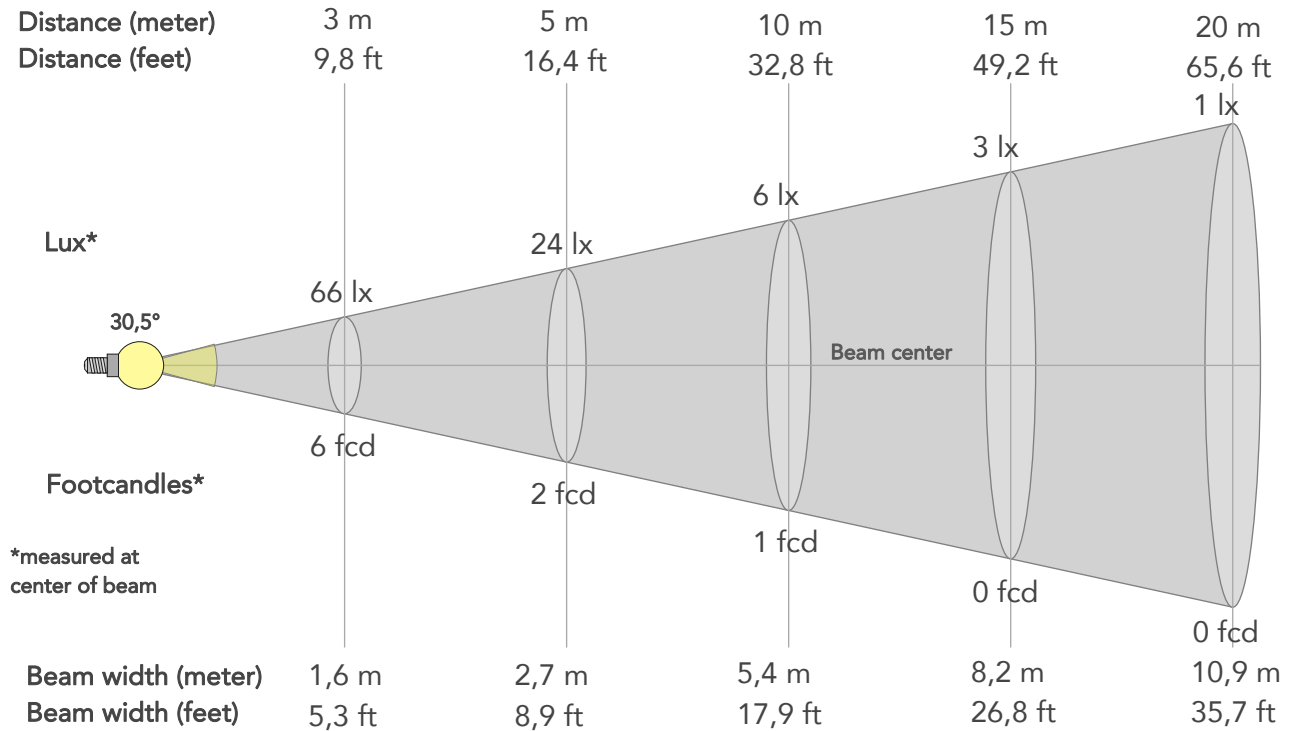
Cut off angle 2.5%: 40,7°

Spectra



BEAM DETAILS

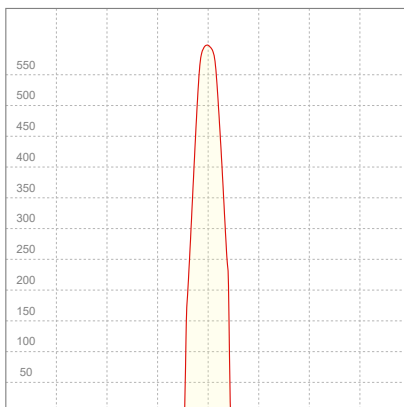
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
30,5°	39,6°	40,7°	98,8%	98,3%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	598lx	149lx	66lx	37lx	24lx	11lx	6lx	3lx	1lx	1lx	1lx	0lx	0lx
Footcand.	56fcd	14fcd	6fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1,1m	1,6m	2,2m	2,7m	4,1m	5,4m	8,2m	10,9m	13,6m	16,3m	21,8m	27,2m
Beam wid.	1,8ft	3,6ft	5,3ft	7,1ft	8,9ft	13,4ft	17,9ft	26,8ft	35,7ft	44,7ft	53,6ft	71,5ft	89,3ft

LINEAR DISTRIBUTION DIAGRAM

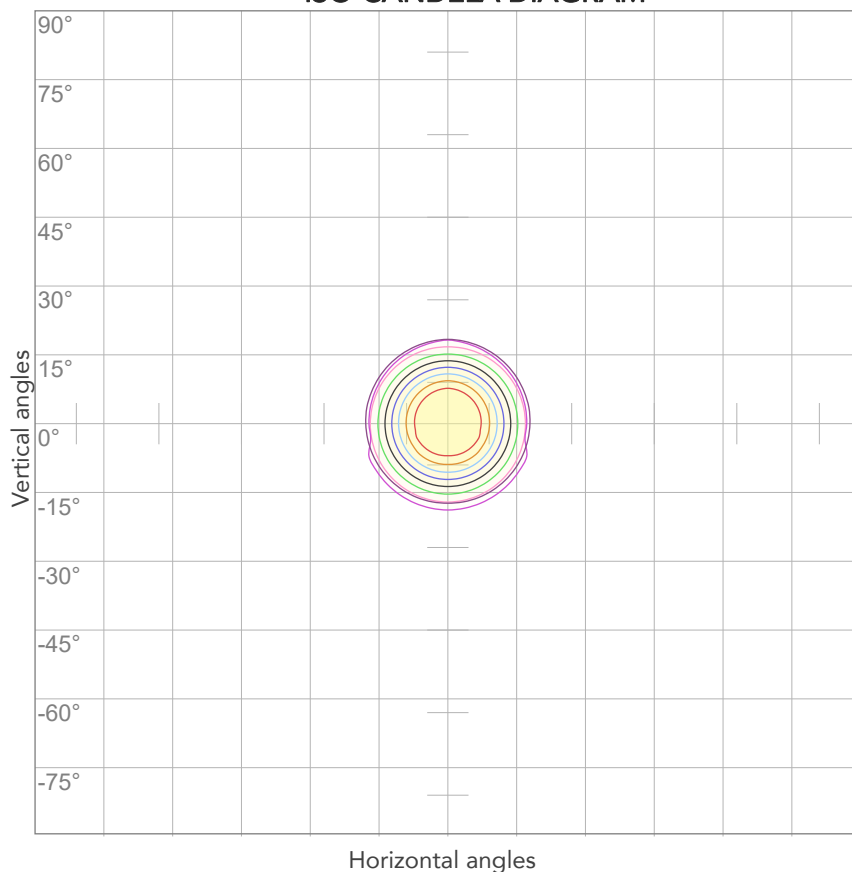


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,087A	16,7W	0,84	8lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



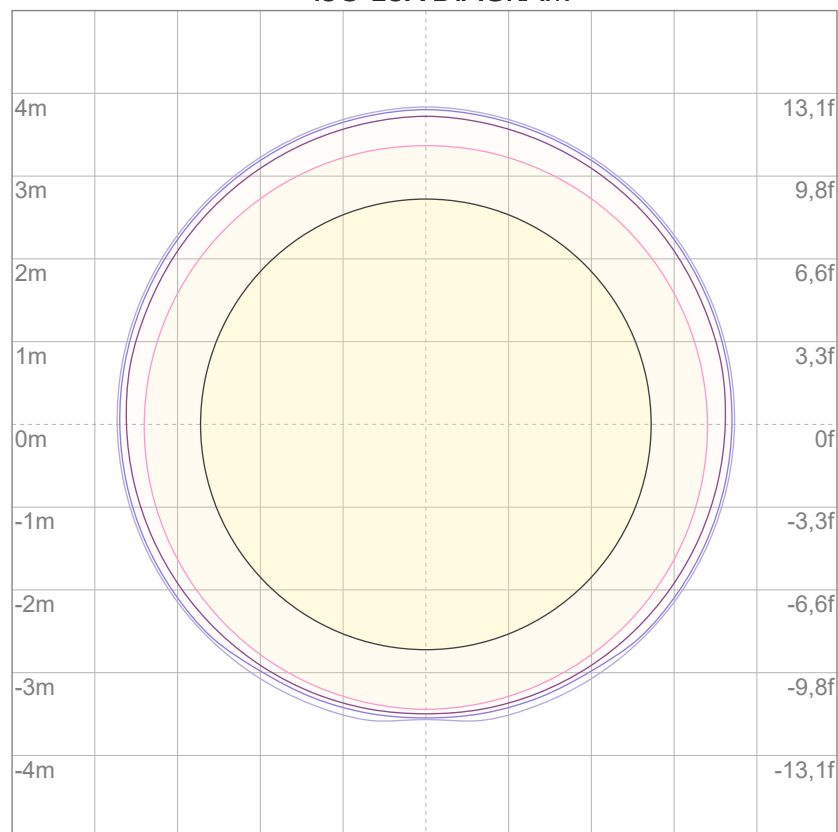
10%	60 cd
20%	120 cd
30%	179 cd
40%	239 cd
50%	299 cd
60%	359 cd
70%	419 cd
80%	478 cd

Conditions:

Number of c-planes: 2

Candela at center: 598 cd

ISO LUX DIAGRAM



3%	0,179 lx
5%	0,299 lx
10%	0,598 lx
30%	1,79 lx
50%	2,99 lx

Conditions:

Number of c-planes: 2

Lux at center: 5,98 lx

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



Total lumen output:

145 lm

Peak candela output:

2367 cd

PRODUCT NAME:

ECLDISPLAYFC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 2040 Min Zoom

Target:

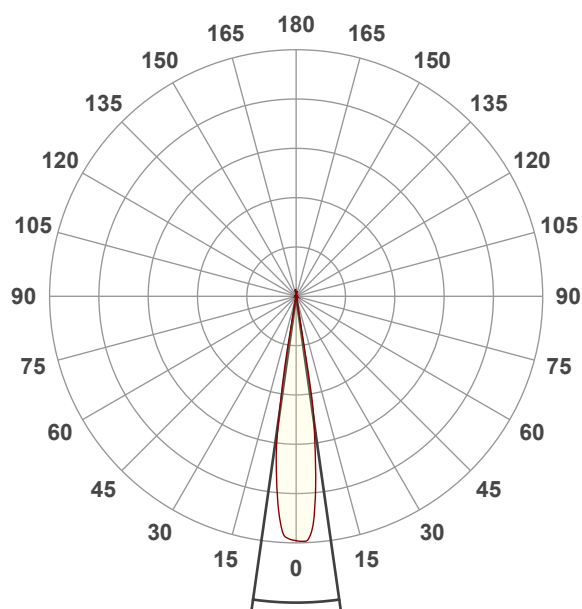
Green

Operator:

Giacomo Matteo

Date and time:

14/06/2024 09:34:44

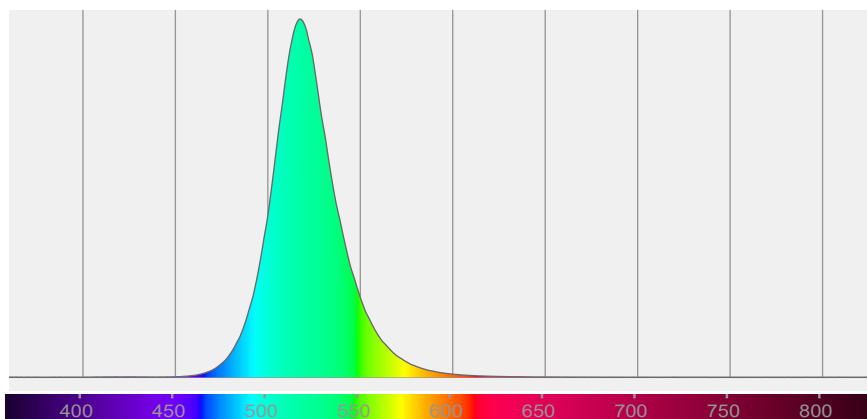


Beam angle 50%: 16,2°

Field angle 10%: 20,1°

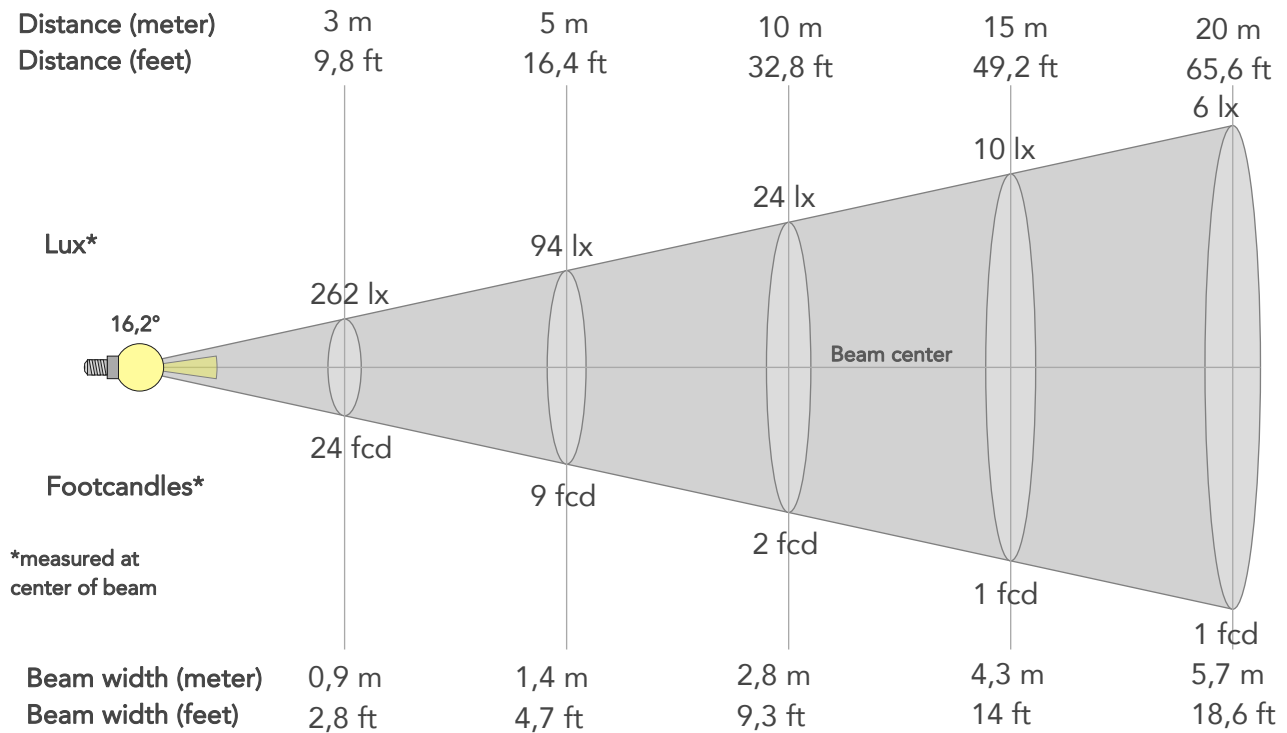
Cut off angle 2.5%: 20,8°

Spectra



BEAM DETAILS

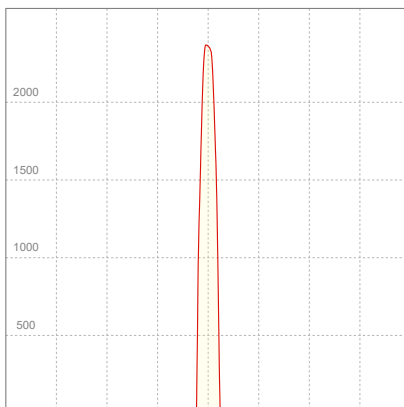
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16,2°	20,1°	20,8°	98,9%	98,4%



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	2360lx	590lx	262lx	147lx	94lx	42lx	24lx	10lx	6lx	4lx	3lx	1lx	1lx
Footcand.	219fcd	55fcd	24fcd	14fcd	9fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,9m	1,1m	1,4m	2,1m	2,8m	4,3m	5,7m	7,1m	8,5m	11,4m	14,2m
Beam wid.	0,9ft	1,9ft	2,8ft	3,7ft	4,7ft	7ft	9,3ft	14ft	18,6ft	23,3ft	28ft	37,3ft	46,6ft

LINEAR DISTRIBUTION DIAGRAM

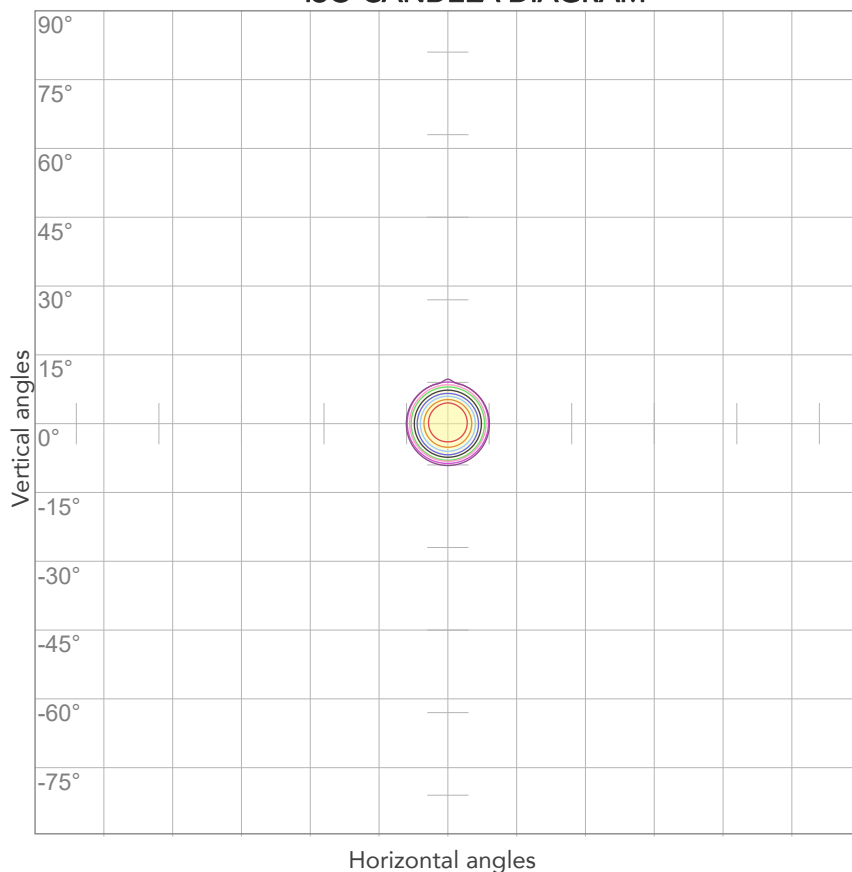


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,090A	17,6W	0,86	8lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



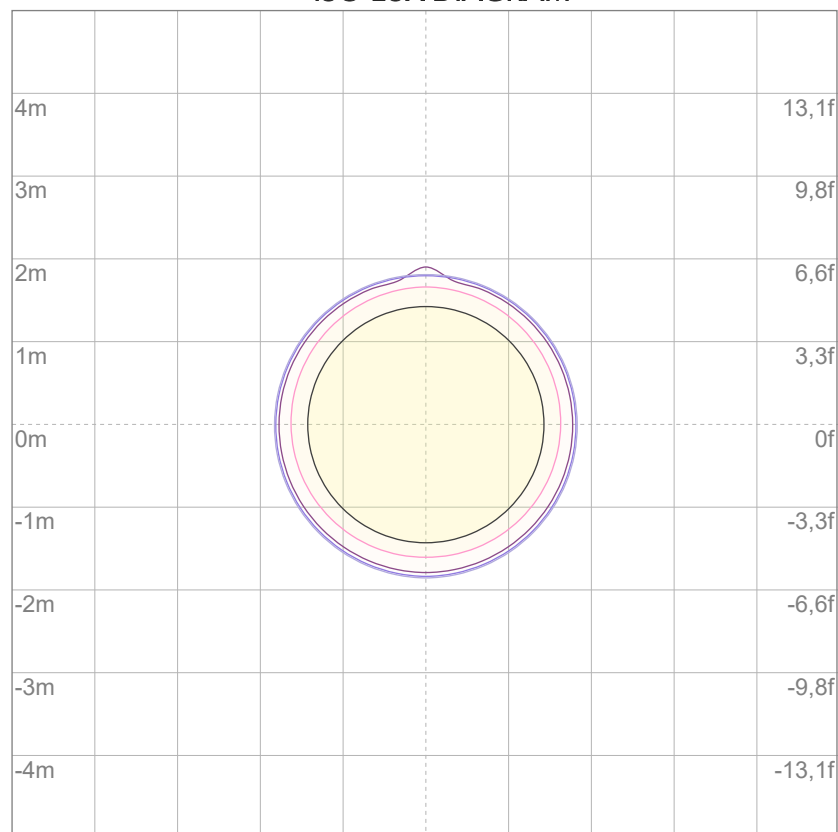
10%	236 cd
20%	472 cd
30%	708 cd
40%	944 cd
50%	1180 cd
60%	1416 cd
70%	1652 cd
80%	1888 cd

Conditions:

Number of c-planes: 2

Candela at center: 2360 cd

ISO LUX DIAGRAM



3%	0,708 lx
5%	1,18 lx
10%	2,36 lx
30%	7,08 lx
50%	11,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 23,6 lx

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



Total lumen output:

34,9 lm

Peak candela output:

148 cd

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 2040 Max Zoom

Target:

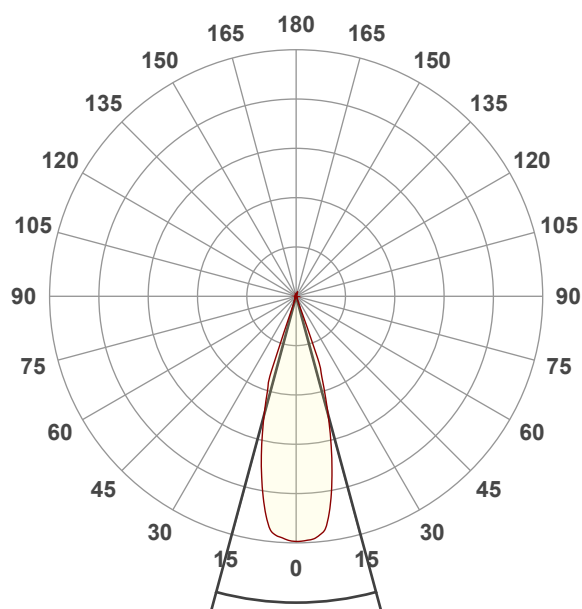
Blue

Operator:

Giacomo Matteo

Date and time:

14/06/2024 10:20:37

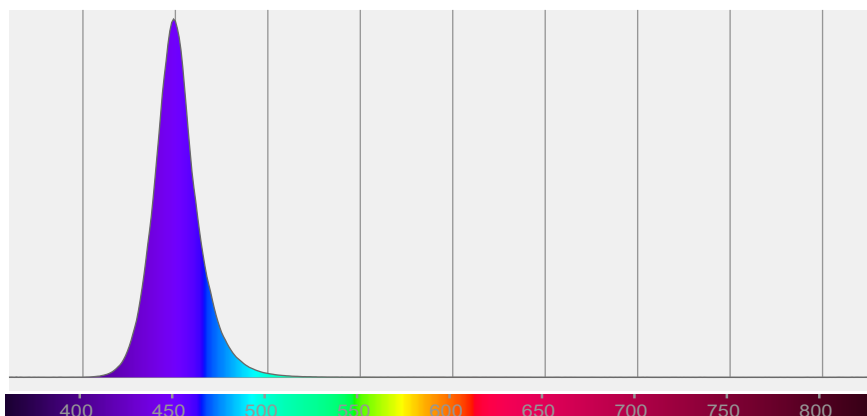


Beam angle 50%: 30,2°

Field angle 10%: 39,6°

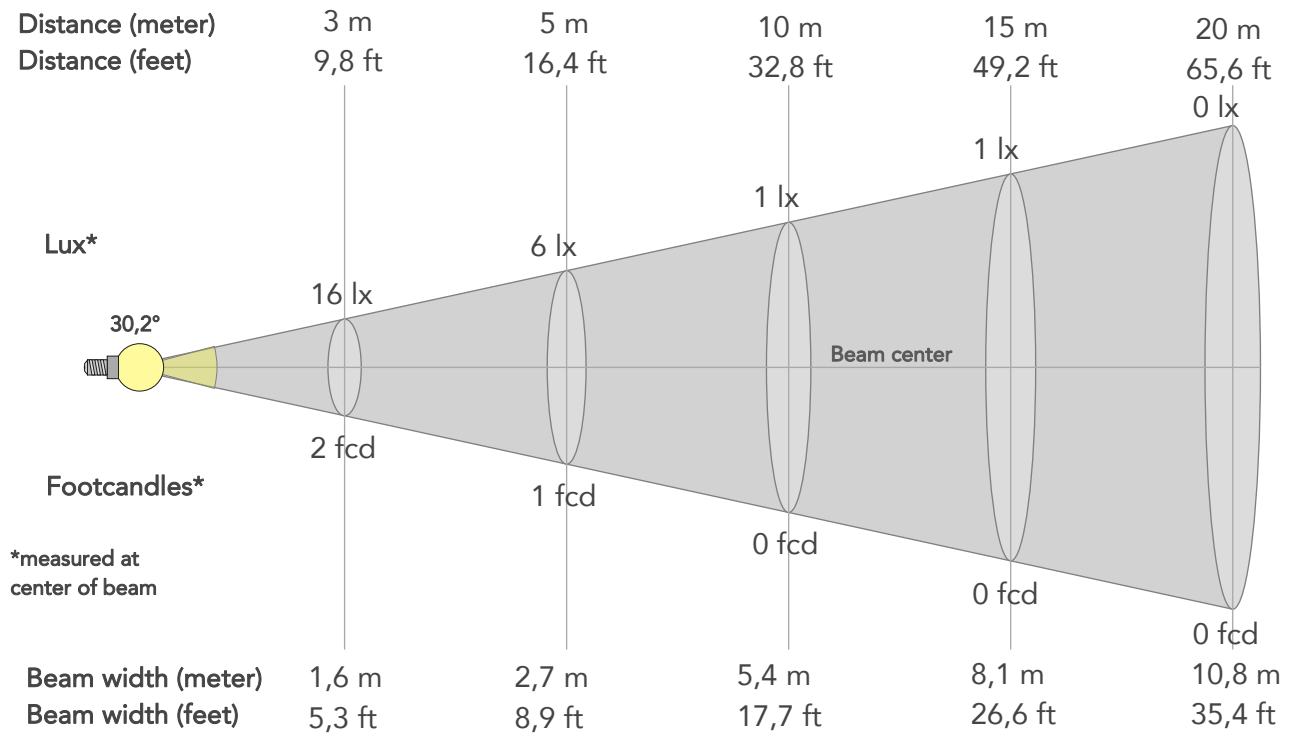
Cut off angle 2.5%: 40,4°

Spectra



BEAM DETAILS

Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
30,2°	39,6°	40,4°	96,9%	95,6%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	148lx	37lx	16lx	9lx	6lx	3lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx
Footcand.	14fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1,1m	1,6m	2,2m	2,7m	4,1m	5,4m	8,1m	10,8m	13,5m	16,2m	21,6m	27m
Beam wid.	1,8ft	3,6ft	5,3ft	7,1ft	8,9ft	13,3ft	17,7ft	26,6ft	35,4ft	44,3ft	53,2ft	70,9ft	88,6ft

LINEAR DISTRIBUTION DIAGRAM

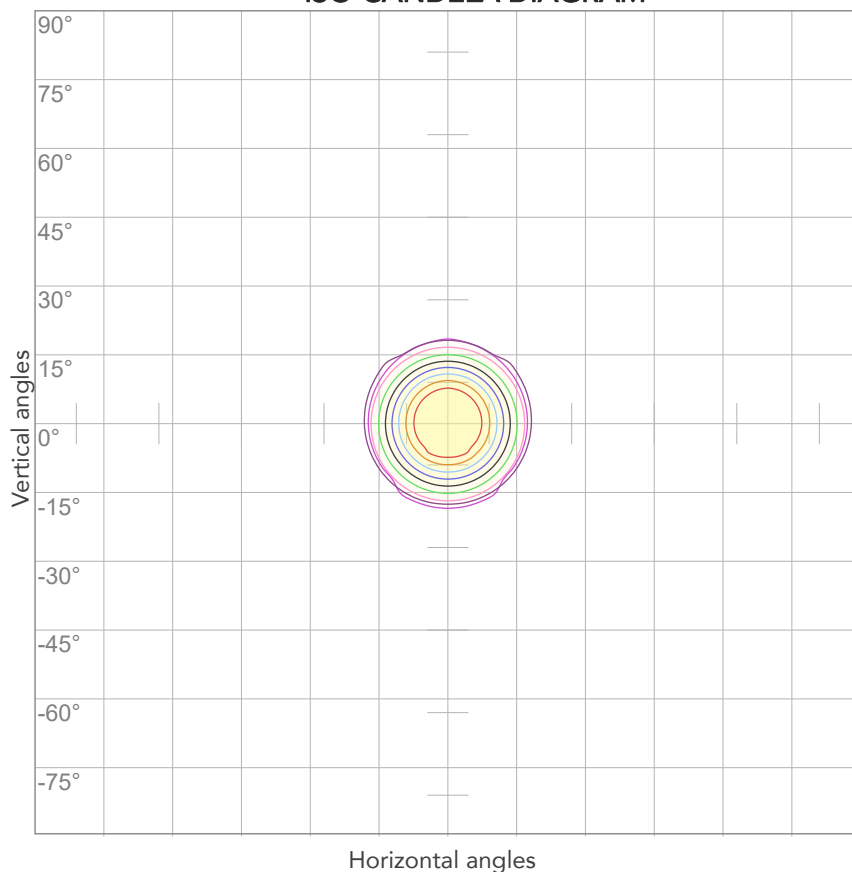


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,083A	15,5W	0,82	2lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



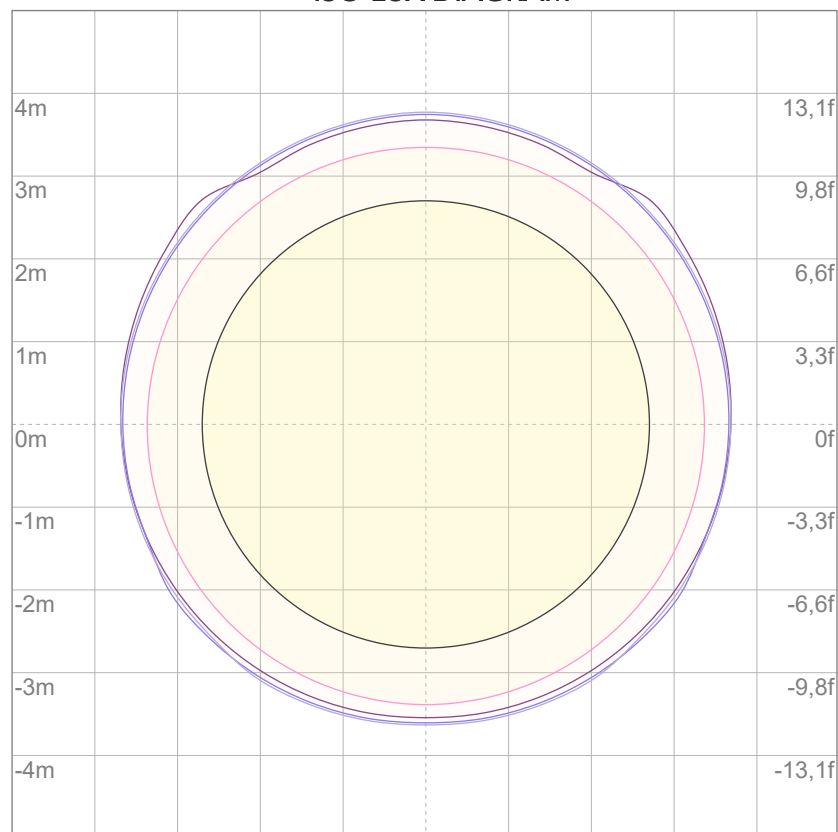
10%	15 cd
20%	30 cd
30%	44 cd
40%	59 cd
50%	74 cd
60%	89 cd
70%	104 cd
80%	118 cd

Conditions:

Number of c-planes: 2

Candela at center: 148 cd

ISO LUX DIAGRAM



3%	44,4m lx
5%	74,0m lx
10%	0,148 lx
30%	0,444 lx
50%	0,740 lx

Conditions:

Number of c-planes: 2

Lux at center: 1,48 lx

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



Total lumen output:

38,2 lm

Peak candela output:

583 cd

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 2040 Min Zoom

Target:

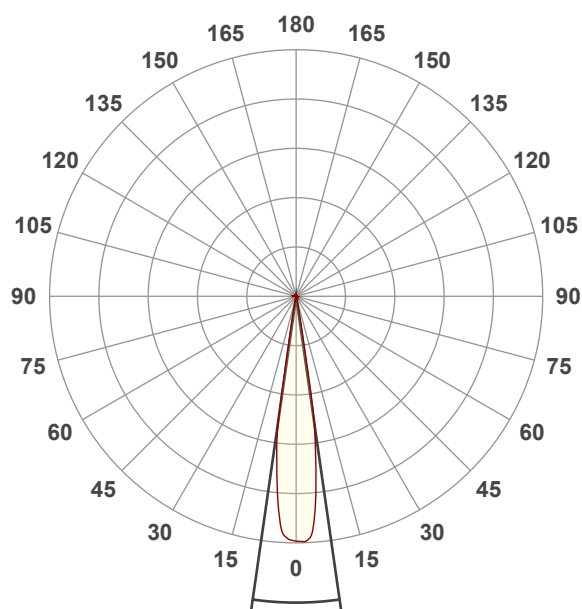
Blue

Operator:

Giacomo Matteo

Date and time:

14/06/2024 09:36:03

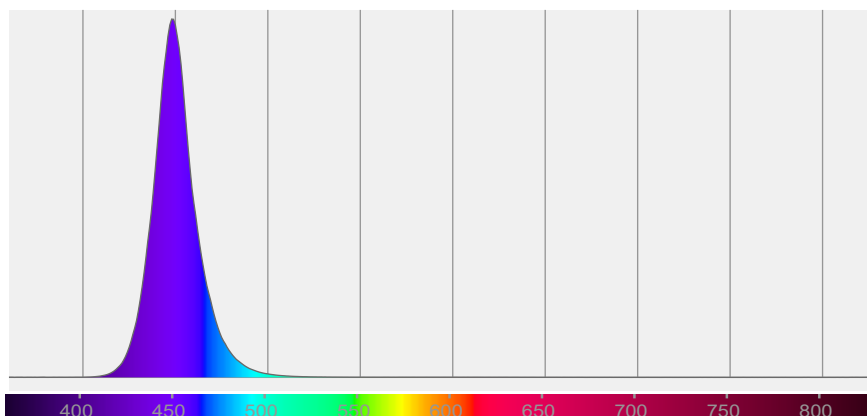


Beam angle 50%: 16,3°

Field angle 10%: 20,2°

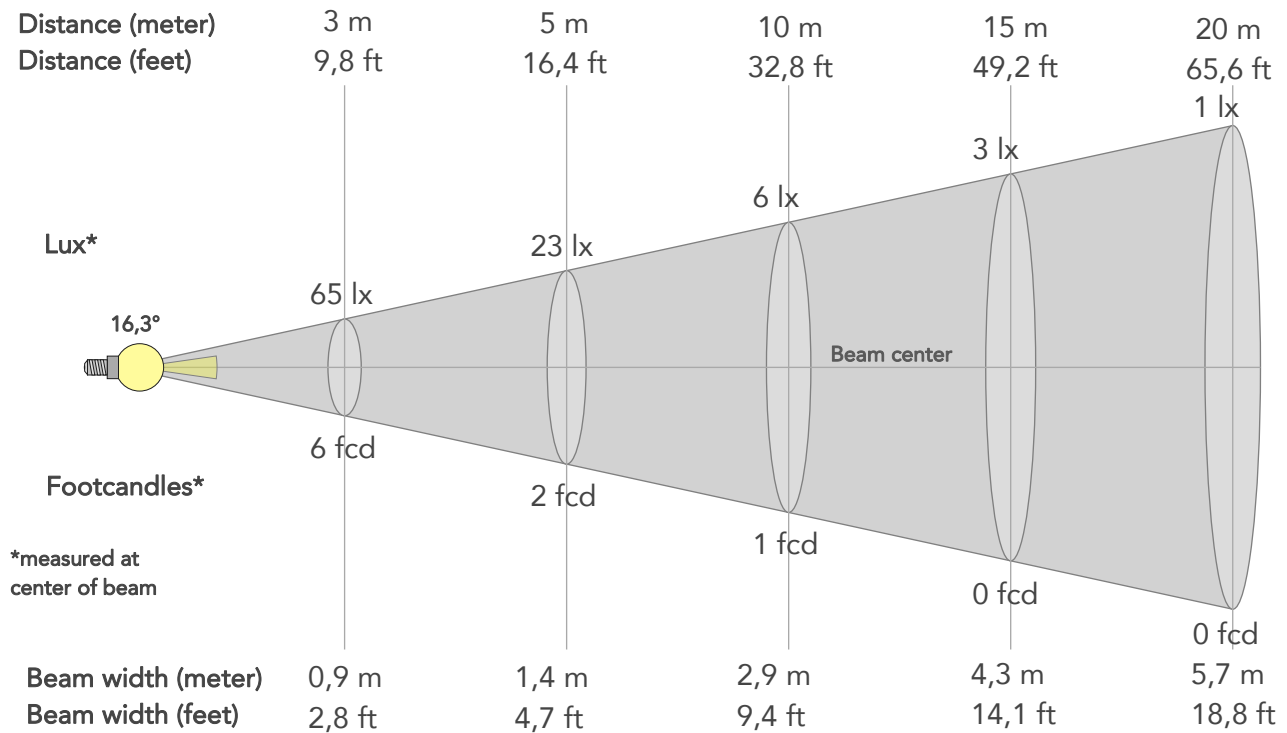
Cut off angle 2.5%: 21,9°

Spectra



BEAM DETAILS

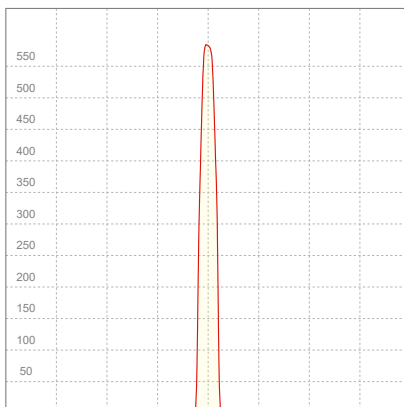
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16,3°	20,2°	21,9°	95,2%	93,2%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	582lx	146lx	65lx	36lx	23lx	10lx	6lx	3lx	1lx	1lx	1lx	0lx	0lx
Footcand.	54fcd	14fcd	6fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,9m	1,1m	1,4m	2,1m	2,9m	4,3m	5,7m	7,2m	8,6m	11,5m	14,3m
Beam wid.	0,9ft	1,9ft	2,8ft	3,8ft	4,7ft	7ft	9,4ft	14,1ft	18,8ft	23,5ft	28,2ft	37,6ft	47ft

LINEAR DISTRIBUTION DIAGRAM

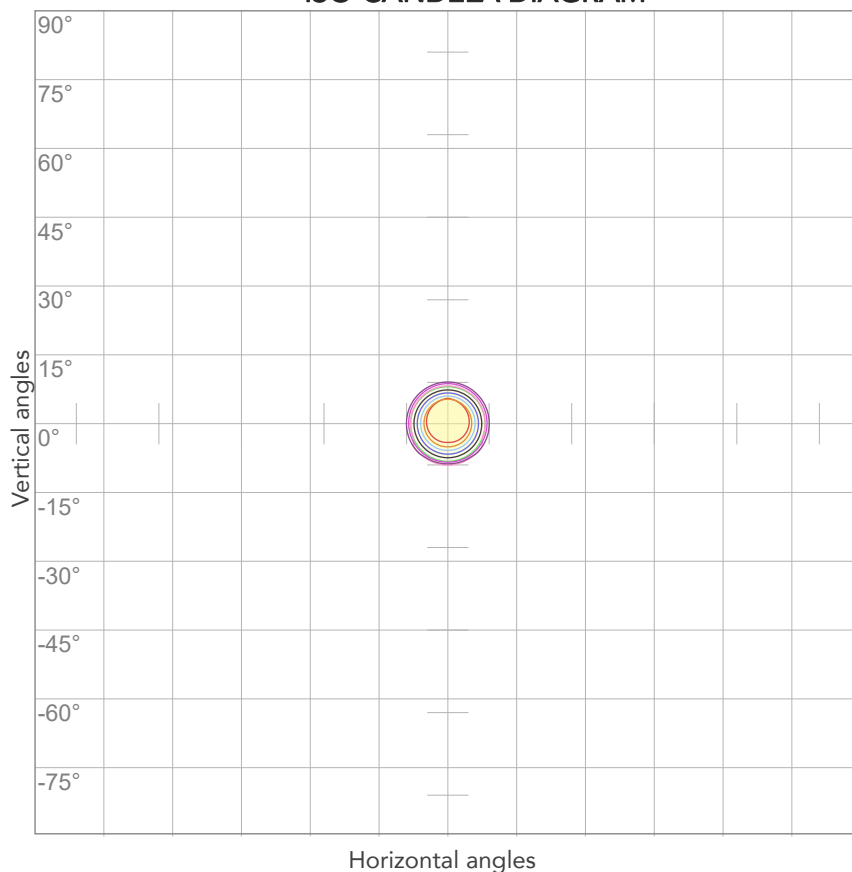


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,086A	16,1W	0,83	2lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



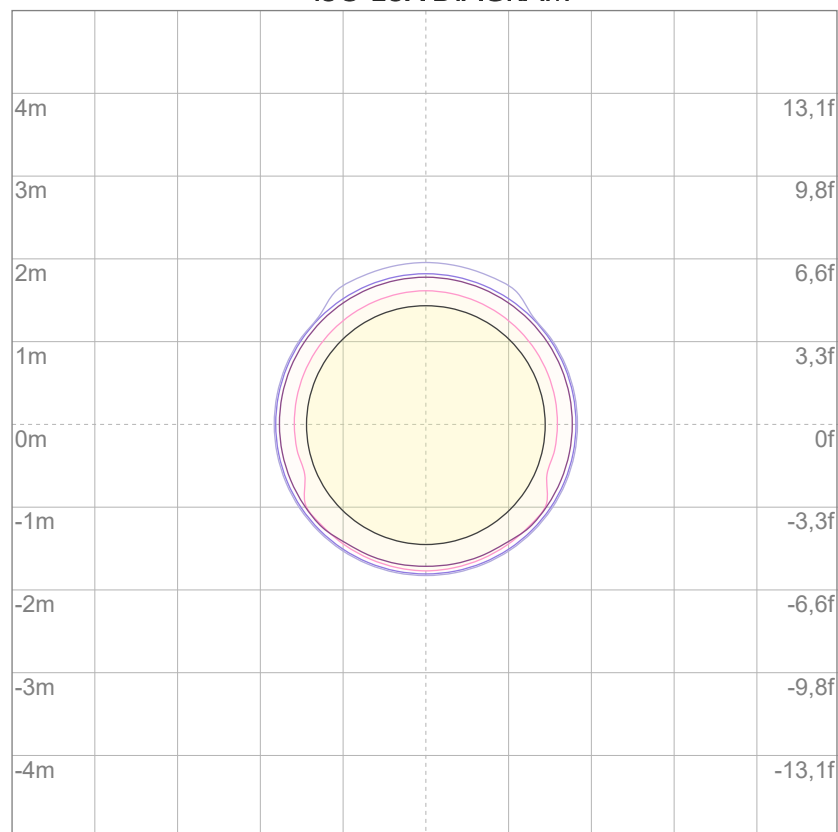
10%	58 cd
20%	116 cd
30%	175 cd
40%	233 cd
50%	291 cd
60%	349 cd
70%	408 cd
80%	466 cd

Conditions:

Number of c-planes: 2

Candela at center: 582 cd

ISO LUX DIAGRAM



3%	0,175 lx
5%	0,291 lx
10%	0,582 lx
30%	1,75 lx
50%	2,91 lx

Conditions:

Number of c-planes: 2

Lux at center: 5,82 lx

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



Total lumen output:

172 lm

Peak candela output:

761 cd

Light quality:

CRI: 77,7

Color temperature:

3424 K

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 2040 Max Zoom

Target:

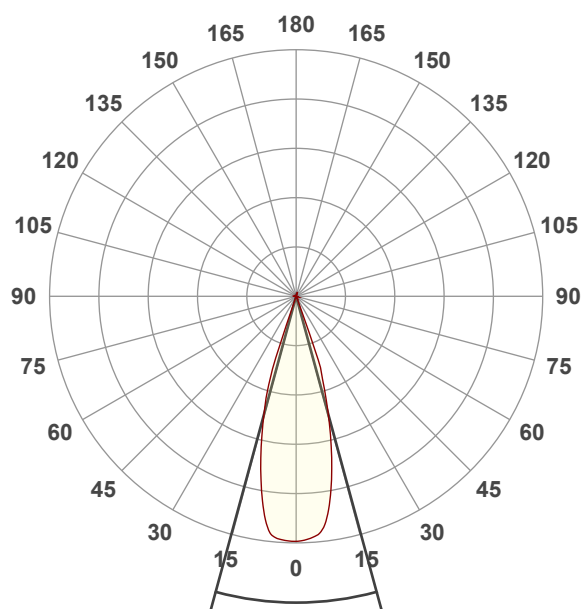
White

Operator:

Giacomo Matteo

Date and time:

14/06/2024 10:21:44

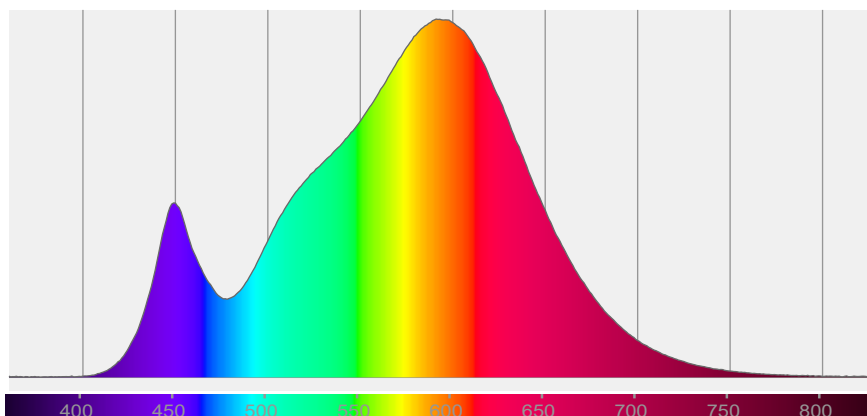


Beam angle 50%: 30,5°

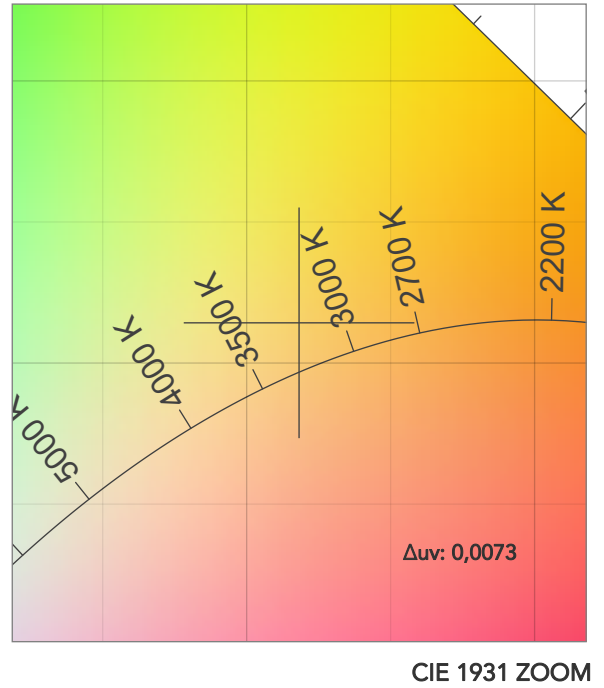
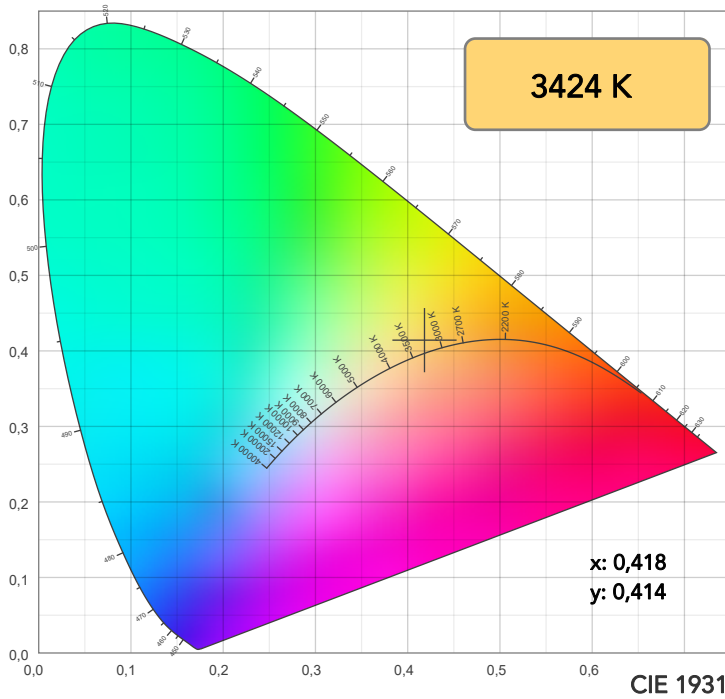
Field angle 10%: 39,6°

Cut off angle 2.5%: 41,2°

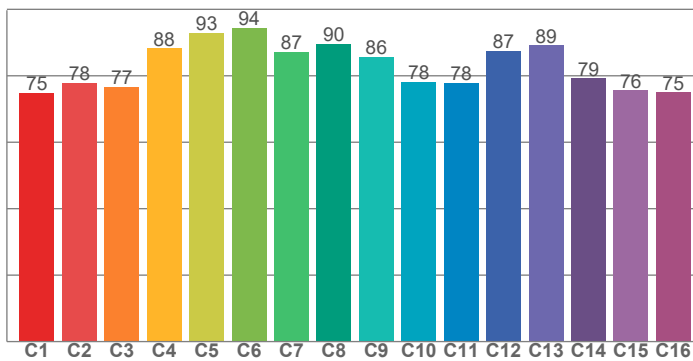
Spectra



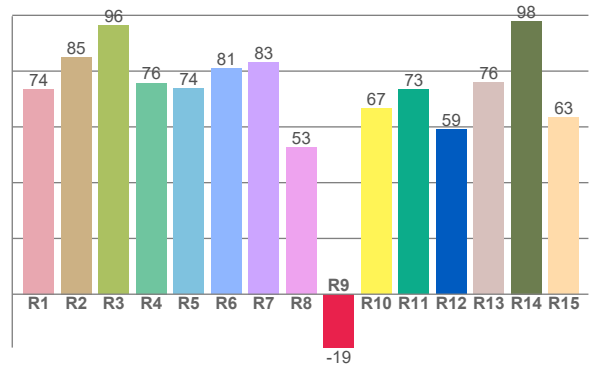
COLOR DETAILS



TM30: 82,9



CRI: 77,7 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
73,6	85,1	96,4	75,8	73,7	81,0	83,2	52,6	-19,1	66,5	73,3	59,1	75,9	98,0	63,4

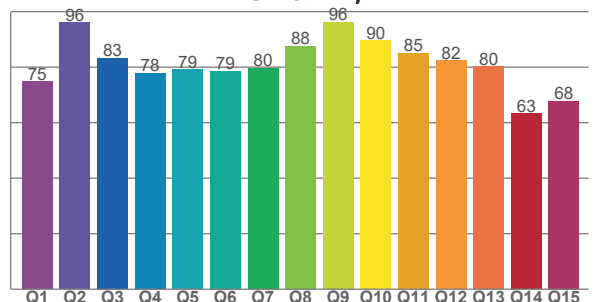
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
74,9	77,9	76,7	88,3	92,9	94,4	87,2	89,6	85,7	78,2	77,8	87,4	89,1	79,2	75,6	74,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,8	96,0	83,2	77,9	79,1	78,7	79,7	87,6	96,2	89,6	85,1	82,4	80,2	63,3	67,7

CQS: 79,4



COLOR PARAMETERS

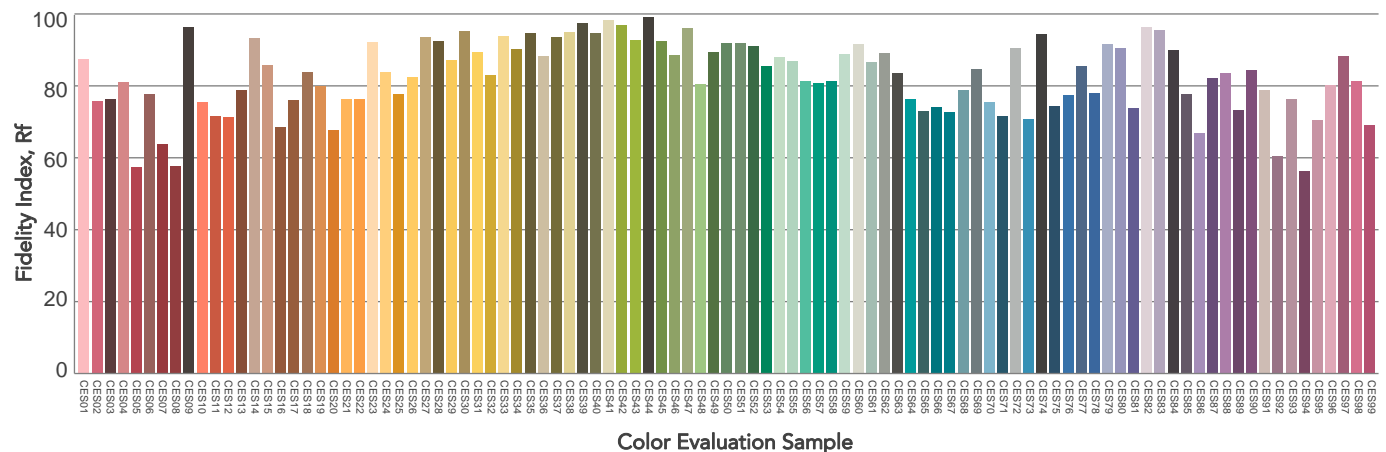
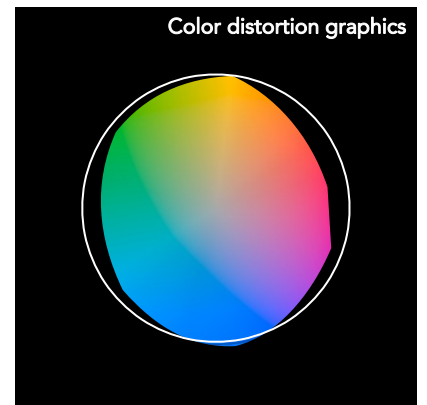
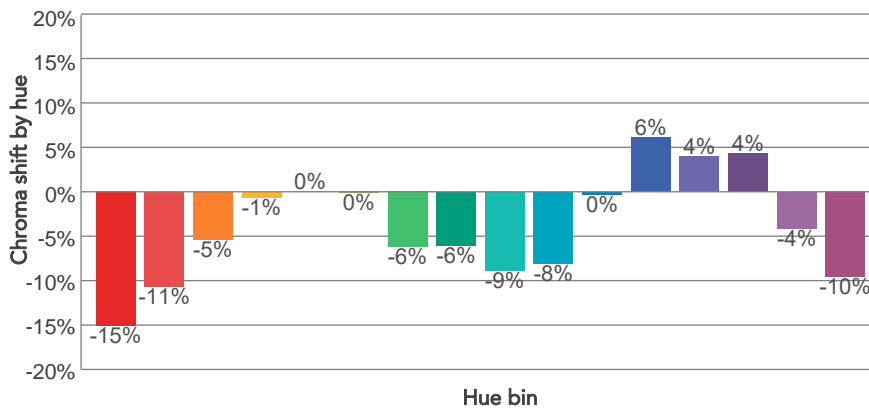
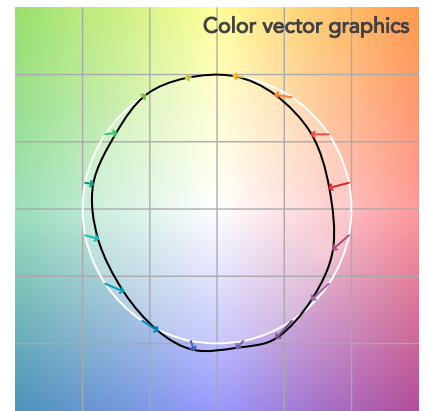
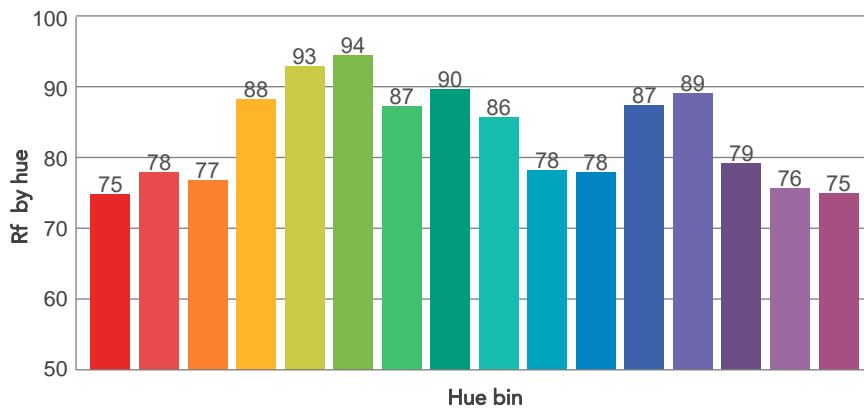
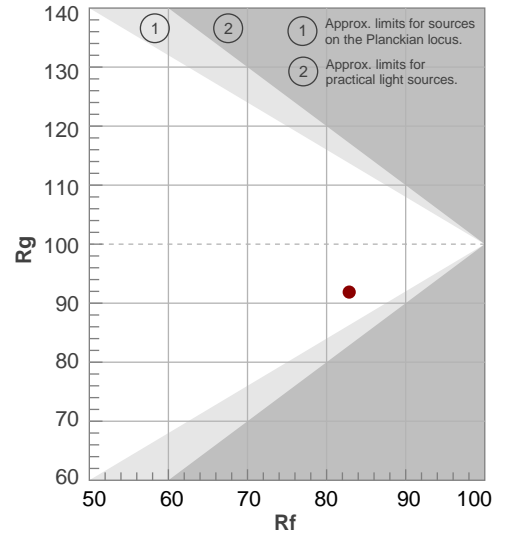
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3424 K	77,7	-19,1	82,9	91,9	79,4	61	0,418	0,414	0,0073

TM30 DETAILS

Rf 82,9
Fidelity index Rf

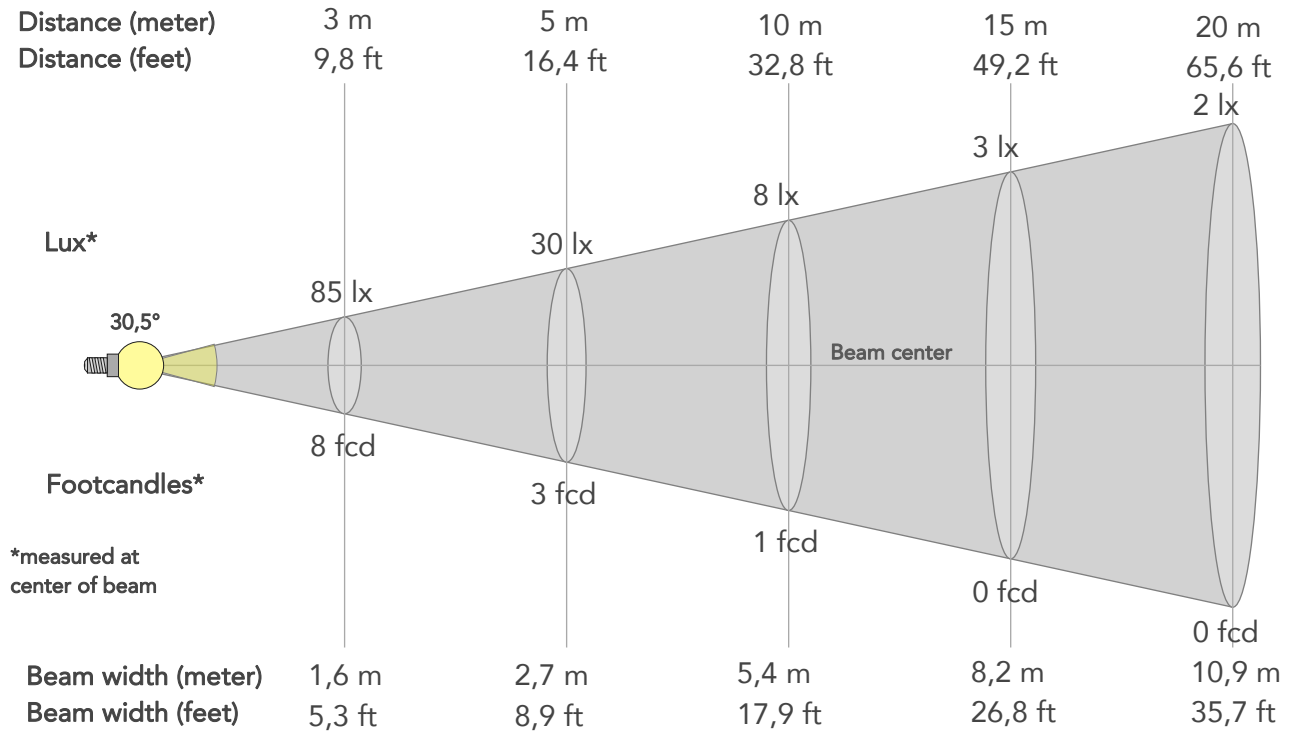
Rg 91,9
Gammut index

		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%	-5%
8	90	-6%	0%
9	86	-9%	4%
10	78	-8%	12%
11	78	0%	14%
12	87	6%	4%
13	89	4%	-6%
14	79	4%	-16%
15	76	-4%	-17%
16	75	-10%	-13%



BEAM DETAILS

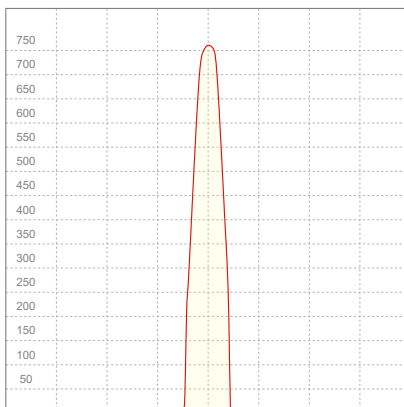
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
30,5°	39,6°	41,2°	99,1%	98,8%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	761lx	190lx	85lx	48lx	30lx	14lx	8lx	3lx	2lx	1lx	1lx	0lx	0lx
Footcand.	71fcd	18fcd	8fcd	4fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1,1m	1,6m	2,2m	2,7m	4,1m	5,4m	8,2m	10,9m	13,6m	16,3m	21,8m	27,2m
Beam wid.	1,8ft	3,6ft	5,3ft	7,1ft	8,9ft	13,4ft	17,9ft	26,8ft	35,7ft	44,7ft	53,6ft	71,4ft	89,3ft

LINEAR DISTRIBUTION DIAGRAM

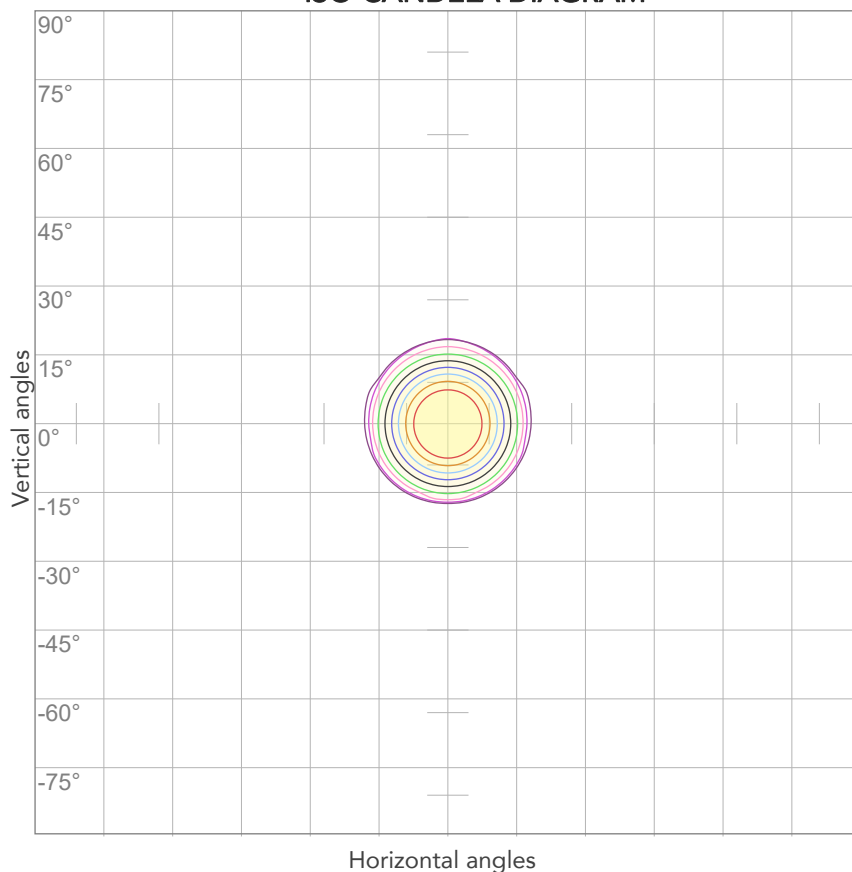


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,090A	17,7W	0,86	10lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



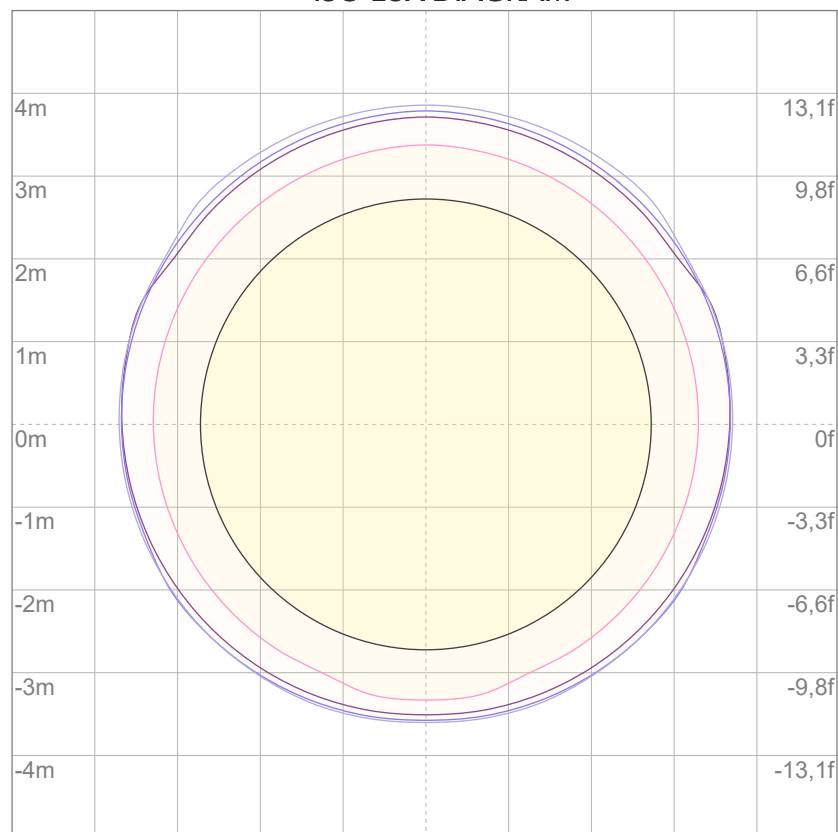
10%	76 cd
20%	152 cd
30%	228 cd
40%	304 cd
50%	380 cd
60%	456 cd
70%	532 cd
80%	608 cd

Conditions:

Number of c-planes: 2

Candela at center: 761 cd

ISO LUX DIAGRAM



3%	0,228 lx
5%	0,380 lx
10%	0,761 lx
30%	2,28 lx
50%	3,80 lx

Conditions:

Number of c-planes: 2

Lux at center: 7,61 lx

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



Total lumen output:

186 lm

Peak candela output:

3036 cd

Light quality:

CRI: 77,7

Color temperature:

3423 K

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 2040 Min Zoom

Target:

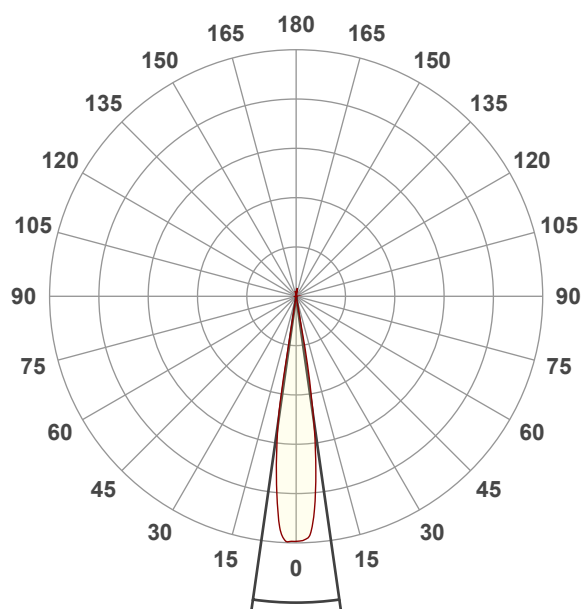
White

Operator:

Giacomo Matteo

Date and time:

14/06/2024 09:37:27

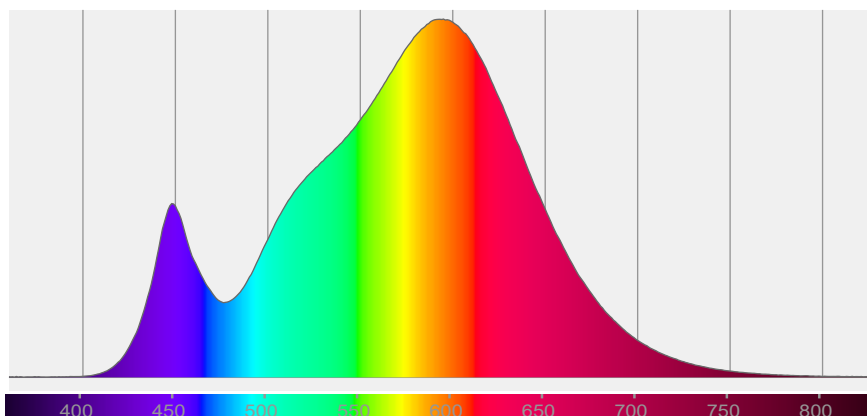


Beam angle 50%: 16,2°

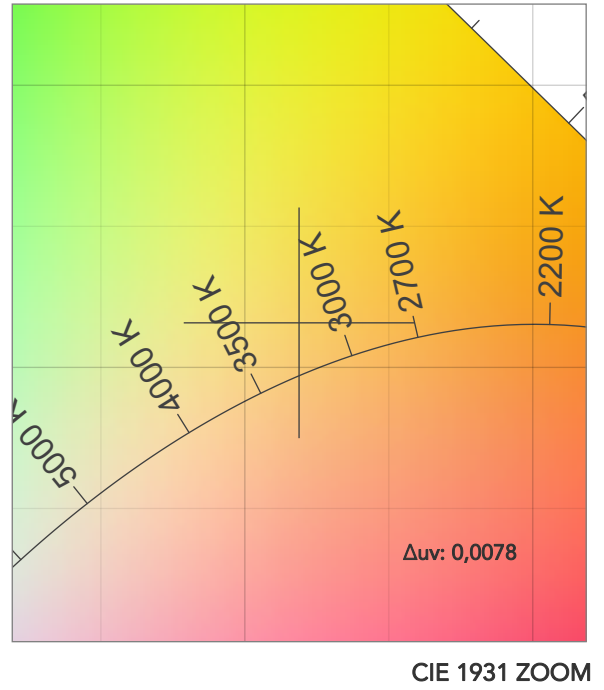
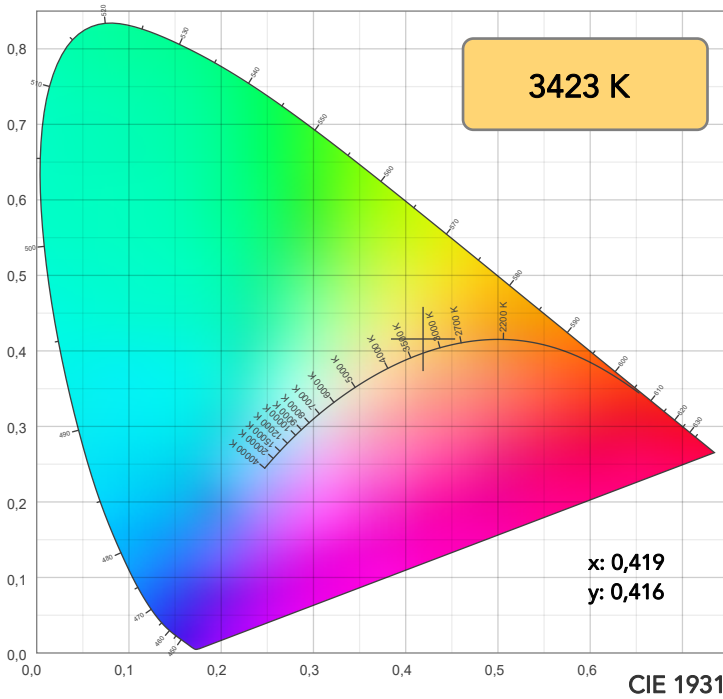
Field angle 10%: 20,1°

Cut off angle 2.5%: 20,8°

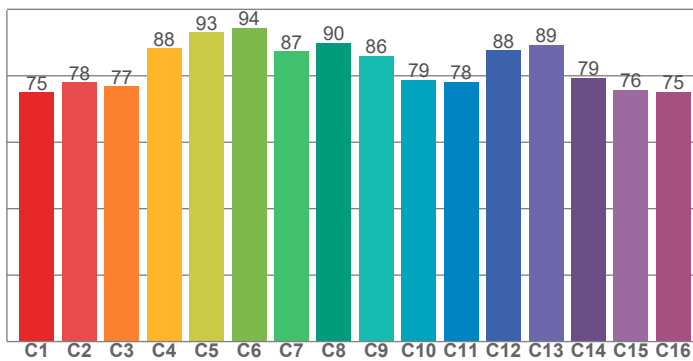
Spectra



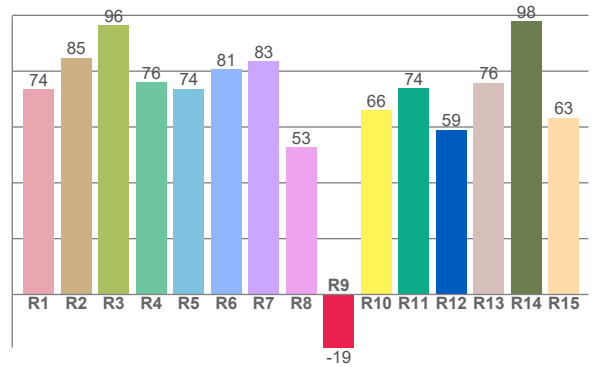
COLOR DETAILS



TM30: 83,1



CRI: 77,7 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
73,5	84,8	96,4	76,1	73,7	80,7	83,5	52,8	-19,0	66,0	73,8	59,0	75,8	97,9	63,3

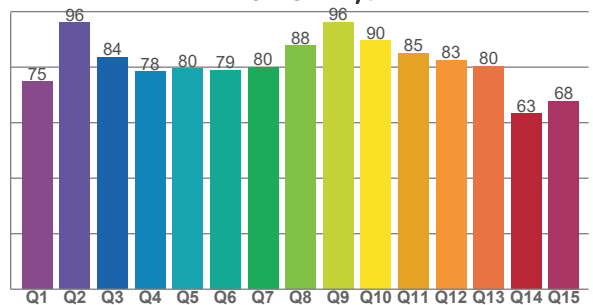
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
75,1	78,0	76,9	88,2	93,0	94,4	87,4	90,0	86,0	78,8	78,1	87,6	89,2	79,4	75,7	75,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,8	96,1	83,6	78,5	79,5	79,0	80,0	87,8	96,3	89,5	85,1	82,6	80,5	63,3	67,8

CQS: 79,6



COLOR PARAMETERS

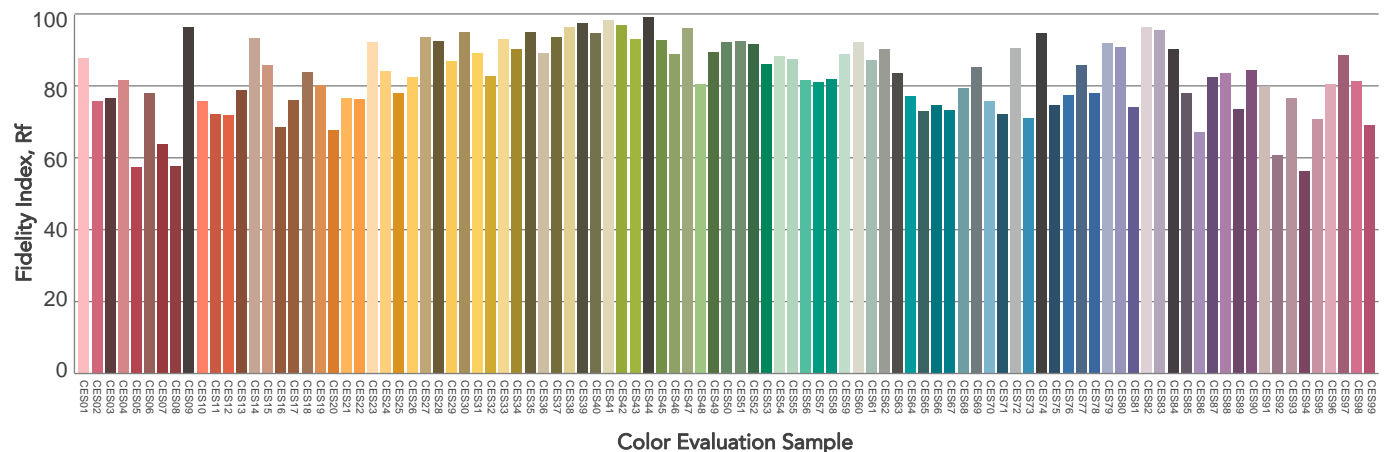
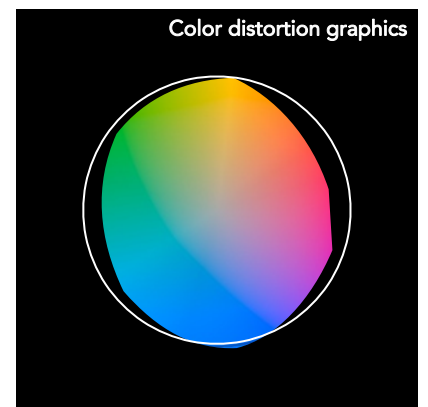
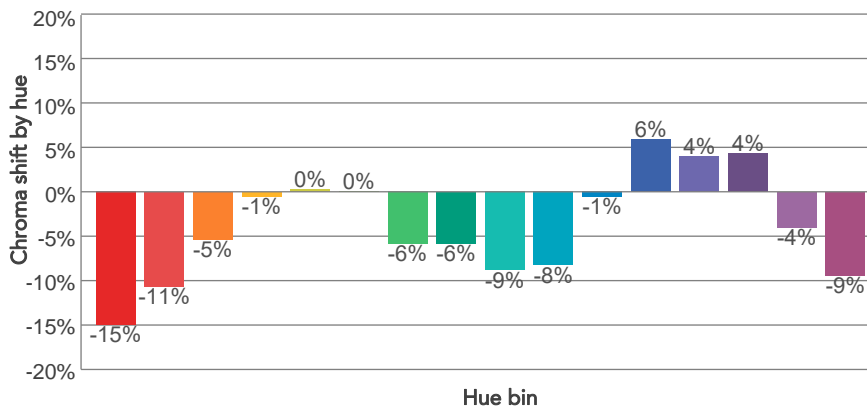
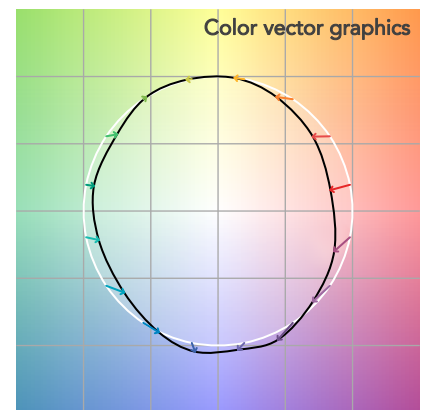
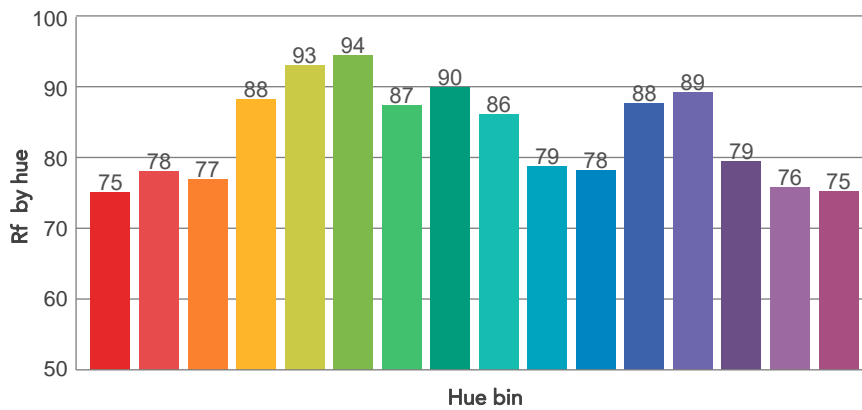
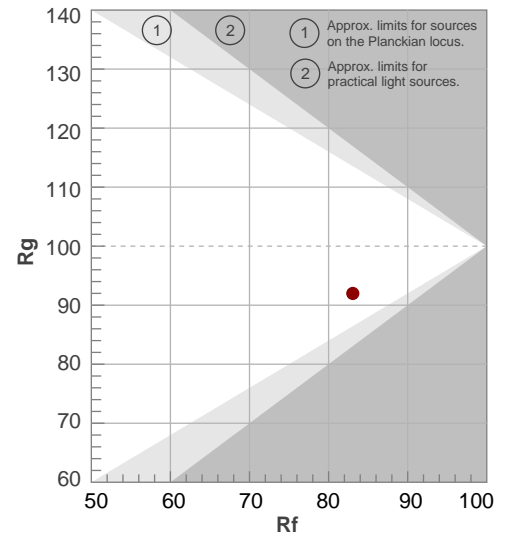
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3423 K	77,7	-19,0	83,1	92,0	79,6	61	0,419	0,416	0,0078

TM30 DETAILS

Rf 83,1
Fidelity index Rf

Rg 92,0
Gammut index

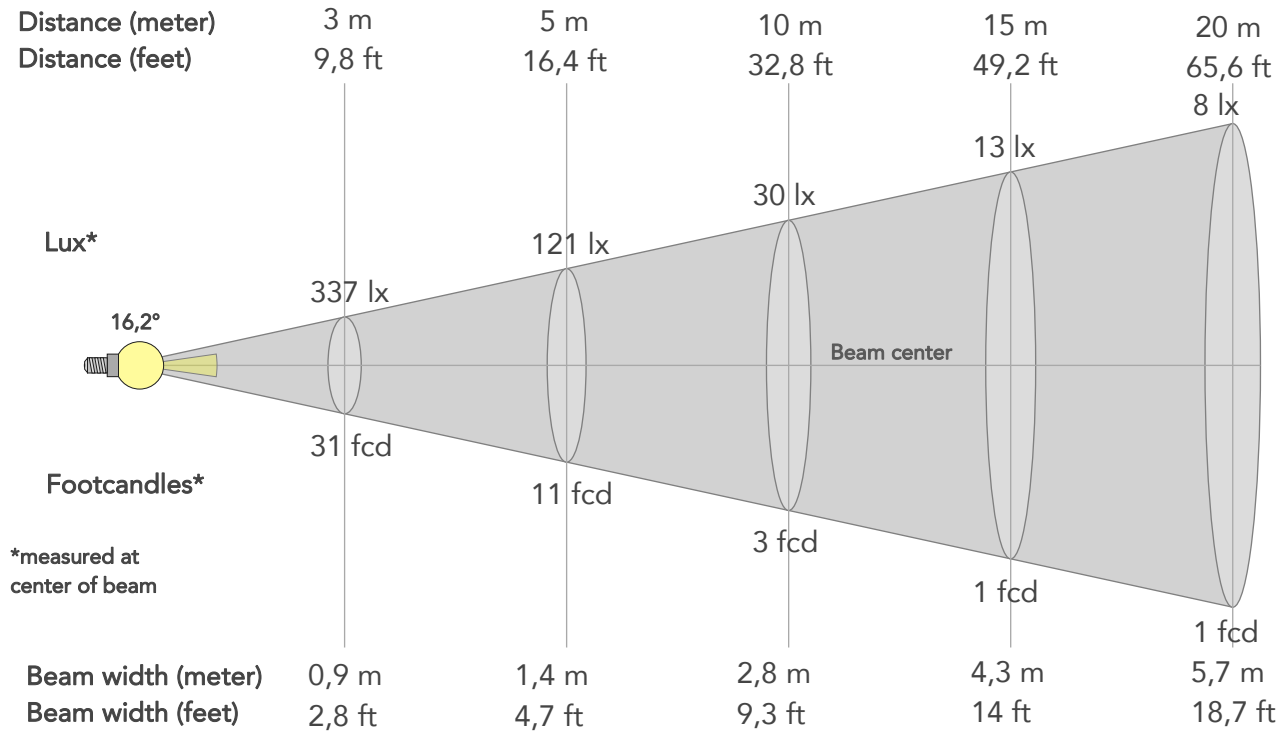
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	75	-15%	-1%
2	78	-11%	7%
3	77	-5%	11%
4	88	-1%	7%
5	93	0%	4%
6	94	0%	-3%
7	87	-6%	-6%
8	90	-6%	0%
9	86	-9%	4%
10	79	-8%	12%
11	78	-1%	13%
12	88	6%	4%
13	89	4%	-6%
14	79	4%	-16%
15	76	-4%	-17%
16	75	-9%	-13%



BEAM DETAILS



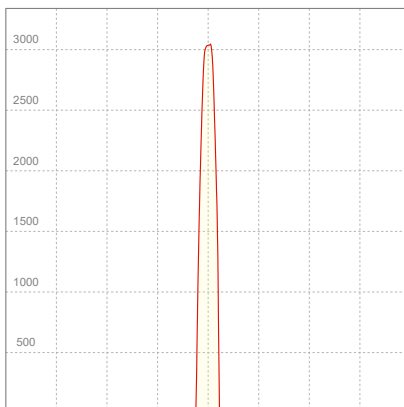
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16,2°	20,1°	20,8°	98,9%	98,5%



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	3035lx	759lx	337lx	190lx	121lx	54lx	30lx	13lx	8lx	5lx	3lx	2lx	1lx
Footcand.	282fcd	70fcd	31fcd	18fcd	11fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,9m	1,1m	1,4m	2,1m	2,8m	4,3m	5,7m	7,1m	8,5m	11,4m	14,2m
Beam wid.	0,9ft	1,9ft	2,8ft	3,7ft	4,7ft	7ft	9,3ft	14ft	18,7ft	23,4ft	28ft	37,4ft	46,7ft

LINEAR DISTRIBUTION DIAGRAM

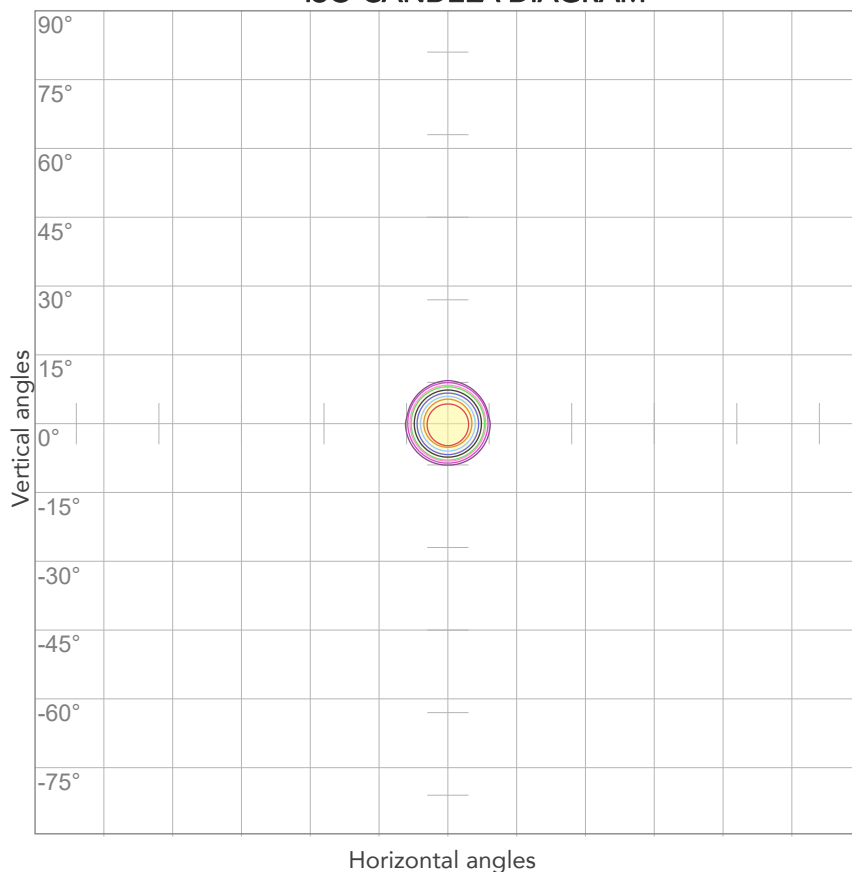


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,092A	18,1W	0,87	10lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



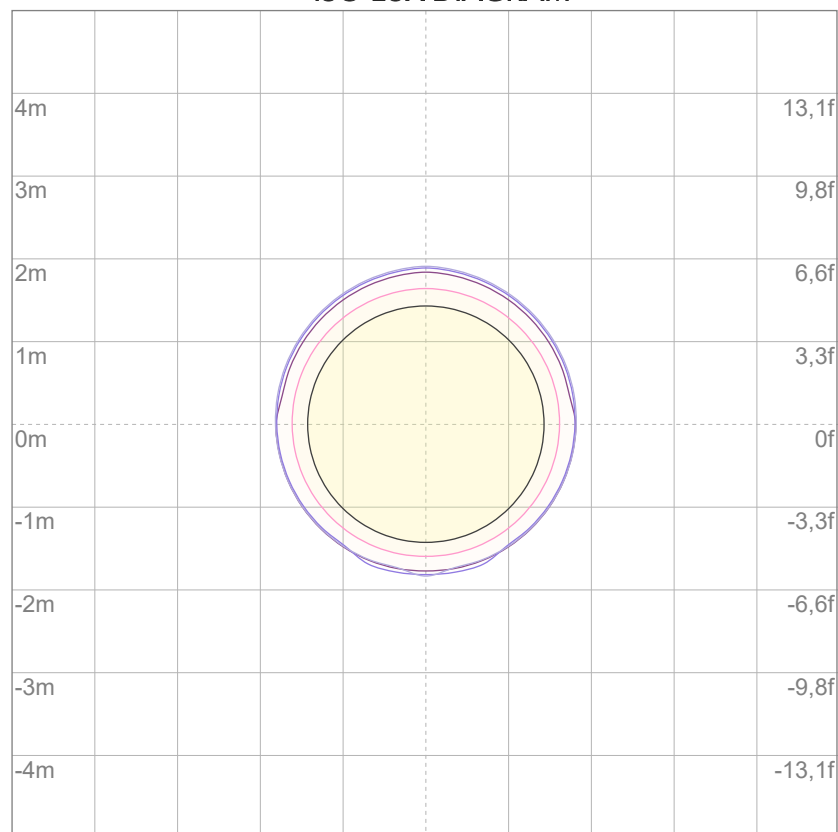
10%	303 cd
20%	607 cd
30%	910 cd
40%	1214 cd
50%	1517 cd
60%	1821 cd
70%	2124 cd
80%	2428 cd

Conditions:

Number of c-planes: 2

Candela at center: 3035 cd

ISO LUX DIAGRAM



3%	0,910 lx
5%	1,52 lx
10%	3,03 lx
30%	9,10 lx
50%	15,2 lx

Conditions:

Number of c-planes: 2

Lux at center: 30,3 lx

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



Total lumen output:

210 lm

Peak candela output:

929 cd

Light quality:

CRI: 95,4

Color temperature:

2960 K

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 2040 Max Zoom

Target:

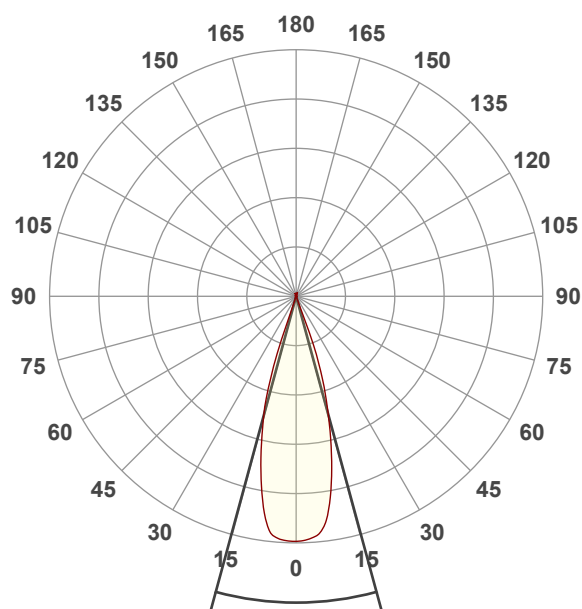
2800K

Operator:

Giacomo Matteo

Date and time:

14/06/2024 10:14:22

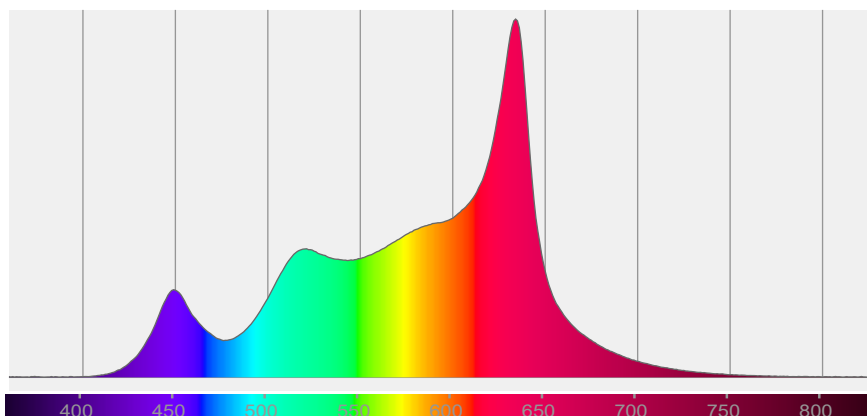


Beam angle 50%: 30,4°

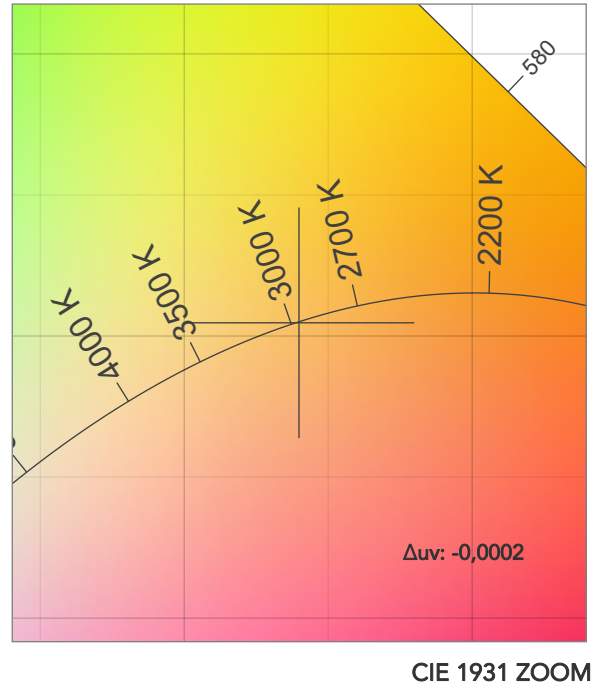
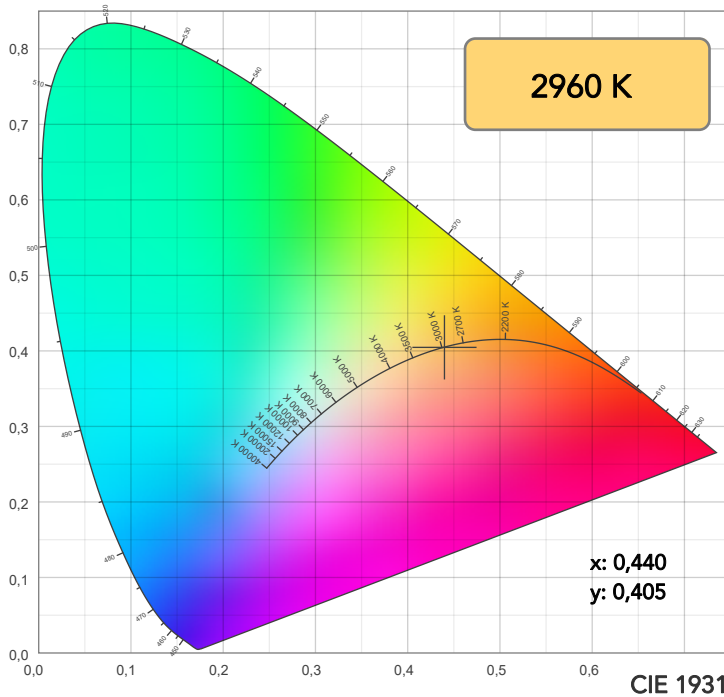
Field angle 10%: 40,2°

Cut off angle 2.5%: 41,6°

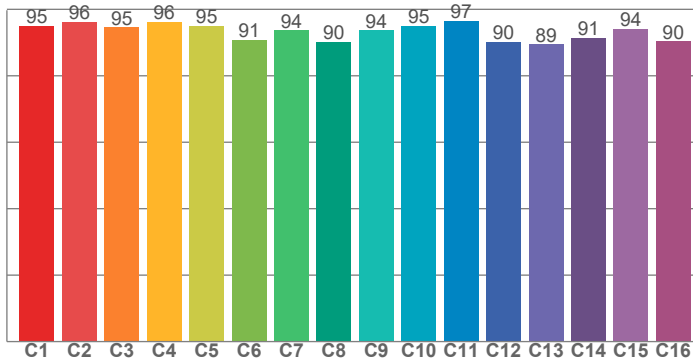
Spectra



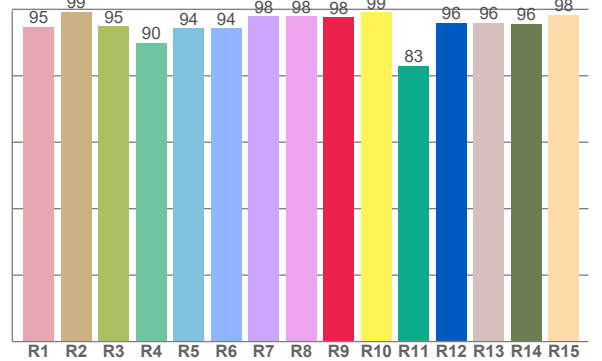
COLOR DETAILS



TM30: 93,8



CRI: 95,4 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94,8	99,3	95,0	90,0	94,3	94,2	97,8	98,0	97,7	99,2	83,1	96,0	96,0	95,6	98,4

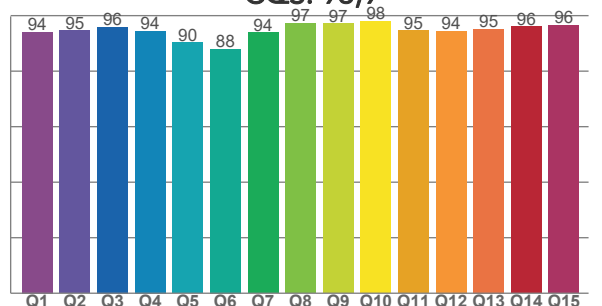
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,9	96,3	94,6	96,3	95,1	90,8	93,7	90,2	93,7	95,0	96,5	90,2	89,5	91,5	94,1	90,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,2	94,6	95,9	94,4	90,3	88,1	93,9	97,2	97,2	98,0	94,6	94,5	95,2	96,0	96,5

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
2960 K	95,4	97,7	93,8	103,9	93,9	86	0,440	0,405	-0,0002

TM30 DETAILS

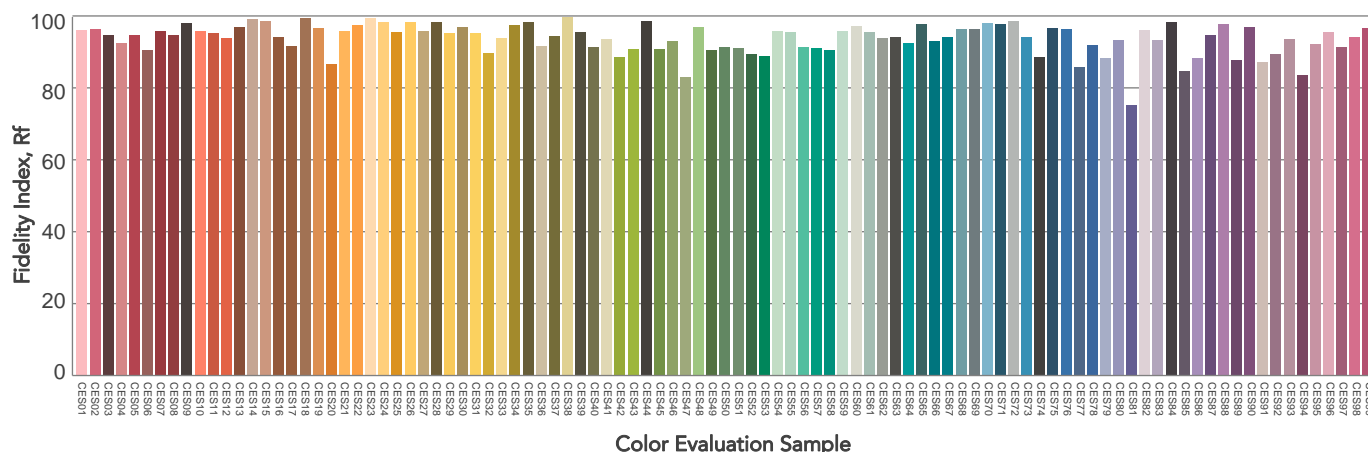
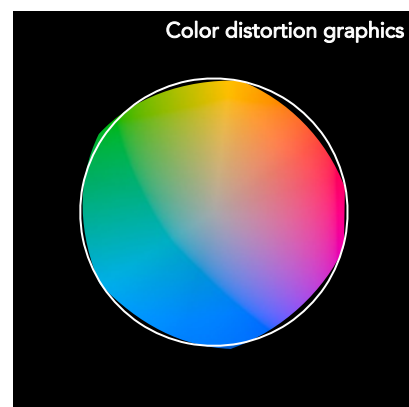
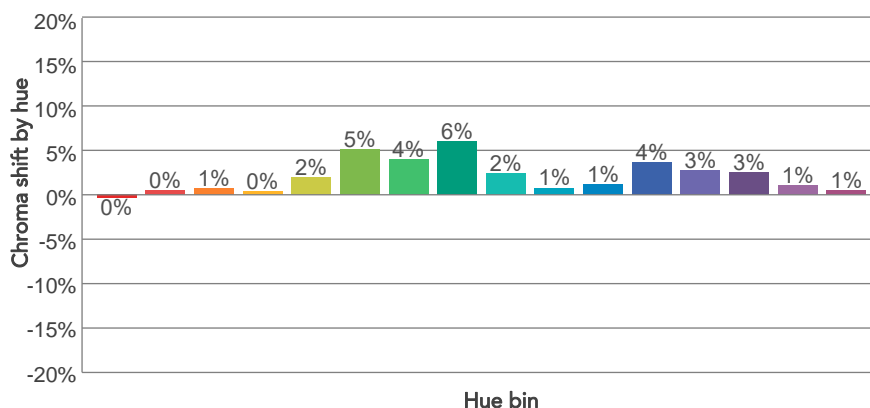
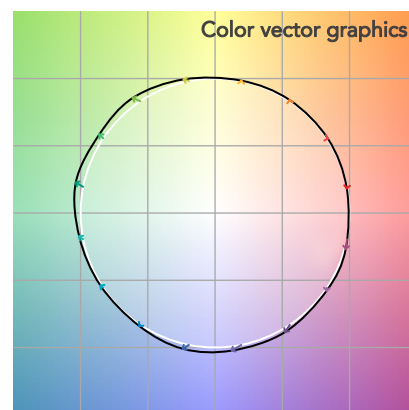
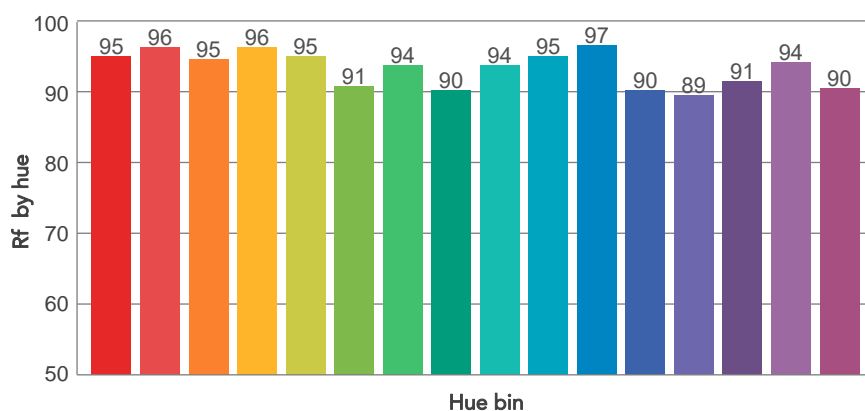
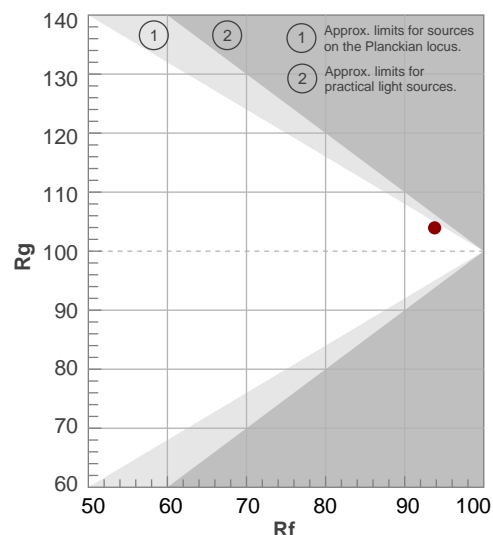
Rf 93,8

Fidelity index Rf

Rg 103,9

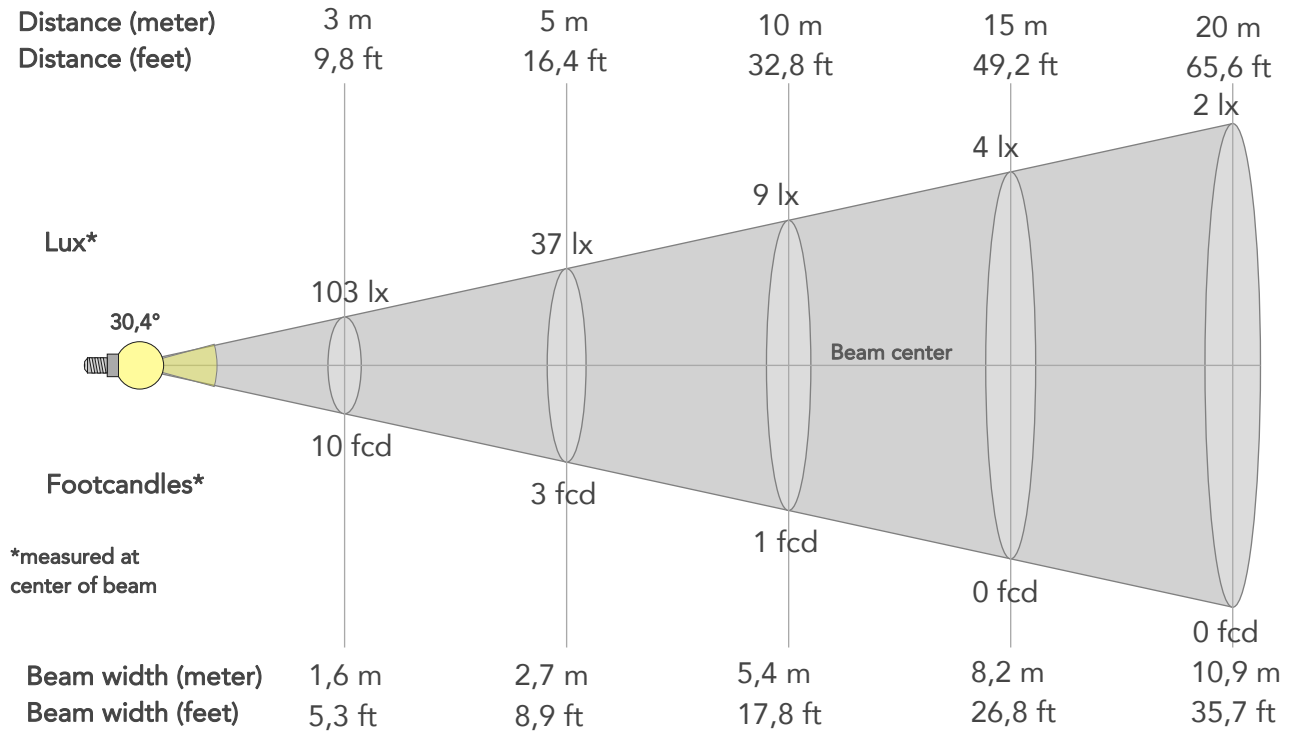
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	0%	-1%
2	96	0%	-1%
3	95	1%	1%
4	96	0%	0%
5	95	2%	3%
6	91	5%	3%
7	94	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	3%	-6%
15	94	1%	-2%
16	90	1%	-7%



BEAM DETAILS

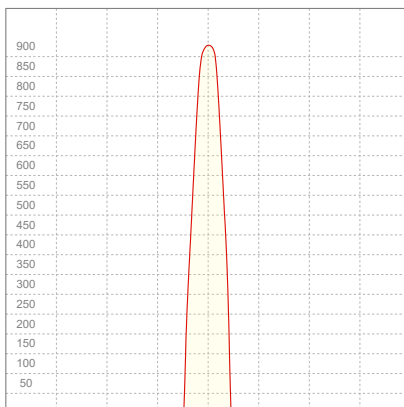
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
30,4°	40,2°	41,6°	99,1%	98,7%



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	928lx	232lx	103lx	58lx	37lx	17lx	9lx	4lx	2lx	1lx	1lx	1lx	0lx
Footcand.	86fcd	22fcd	10fcd	5fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1,1m	1,6m	2,2m	2,7m	4,1m	5,4m	8,2m	10,9m	13,6m	16,3m	21,8m	27,2m
Beam wid.	1,8ft	3,6ft	5,3ft	7,1ft	8,9ft	13,4ft	17,8ft	26,8ft	35,7ft	44,6ft	53,5ft	71,3ft	89,2ft

LINEAR DISTRIBUTION DIAGRAM

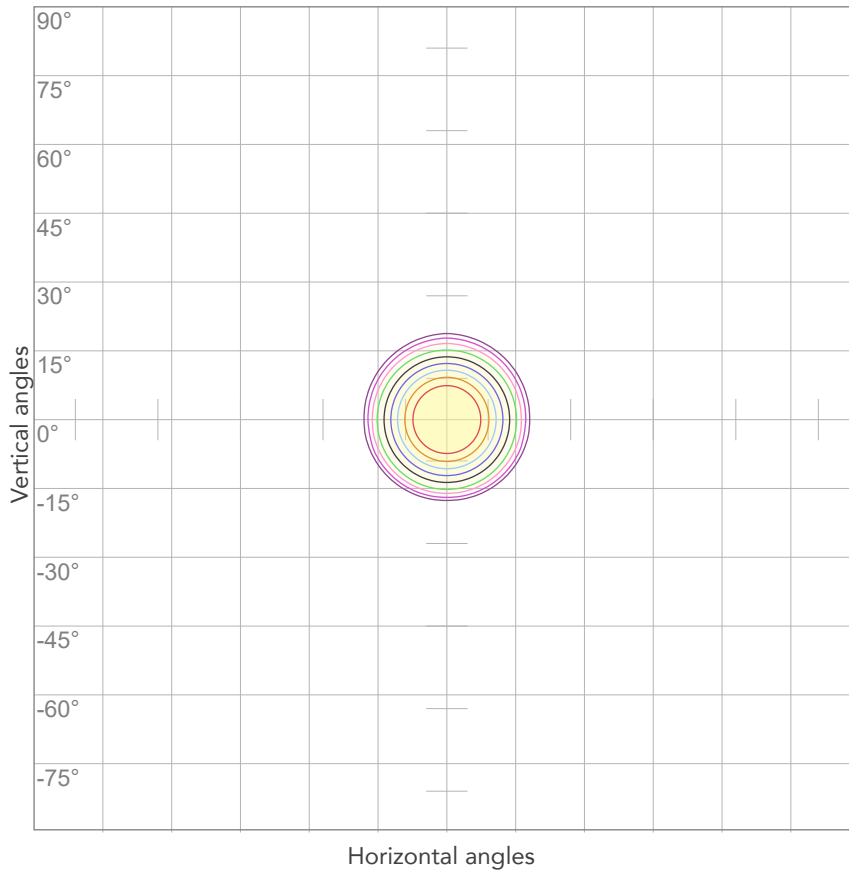


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,112A	23,1W	0,91	9lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



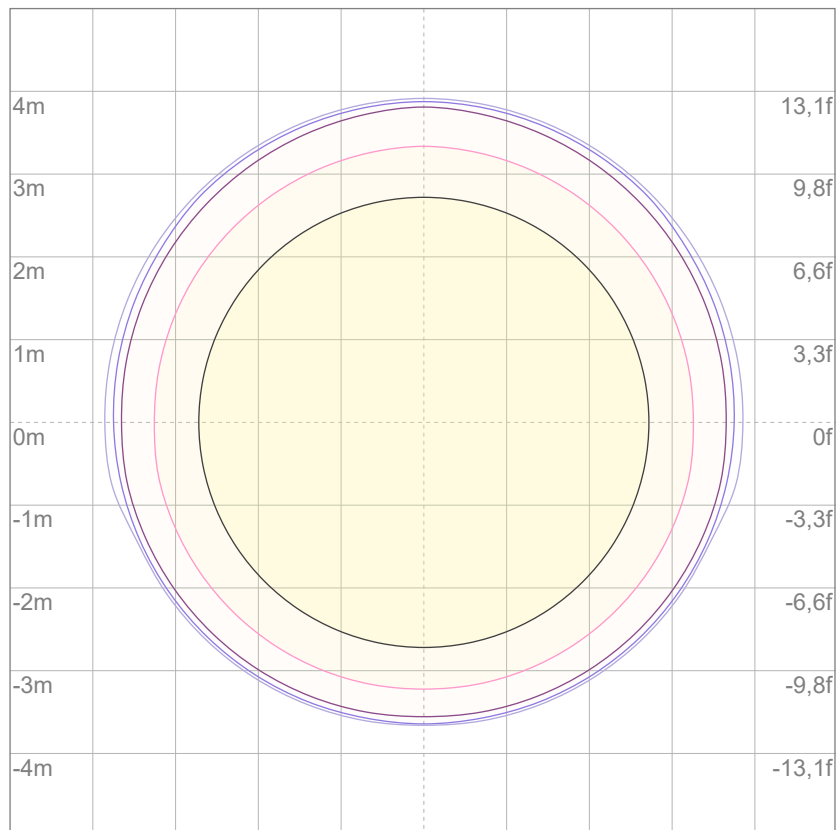
10%	93 cd
20%	186 cd
30%	278 cd
40%	371 cd
50%	464 cd
60%	557 cd
70%	650 cd
80%	743 cd

Conditions:

Number of c-planes: 2

Candela at center: 928 cd

ISO LUX DIAGRAM



3%	0,278 lx
5%	0,464 lx
10%	0,928 lx
30%	2,78 lx
50%	4,64 lx

Conditions:

Number of c-planes: 2

Lux at center: 9,28 lx

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



Total lumen output:

226 lm

Peak candela output:

3702 cd

Light quality:

CRI: 95,7

Color temperature:

2970 K

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 2040 Min Zoom

Target:

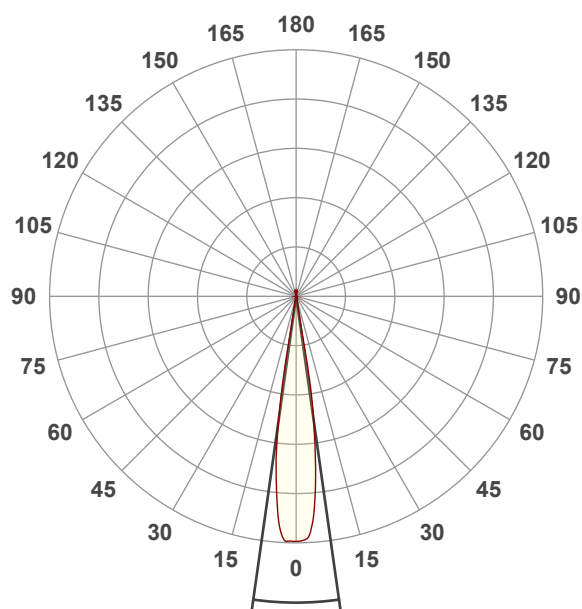
2800K

Operator:

Giacomo Matteo

Date and time:

14/06/2024 09:38:44

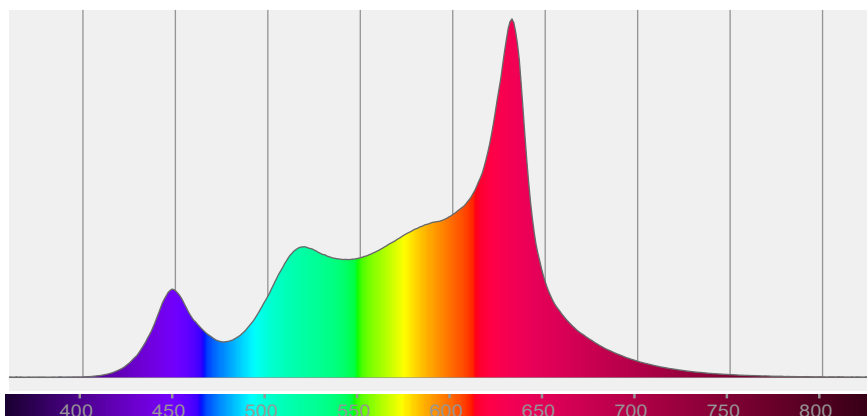


Beam angle 50%: 16,1°

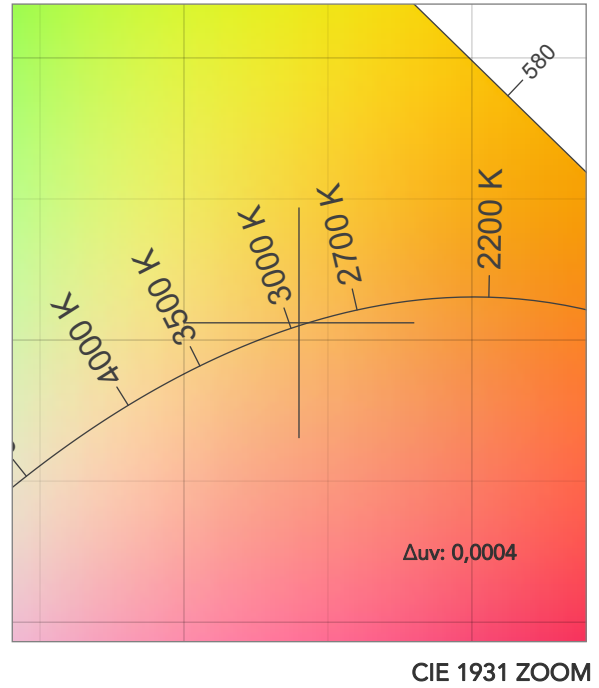
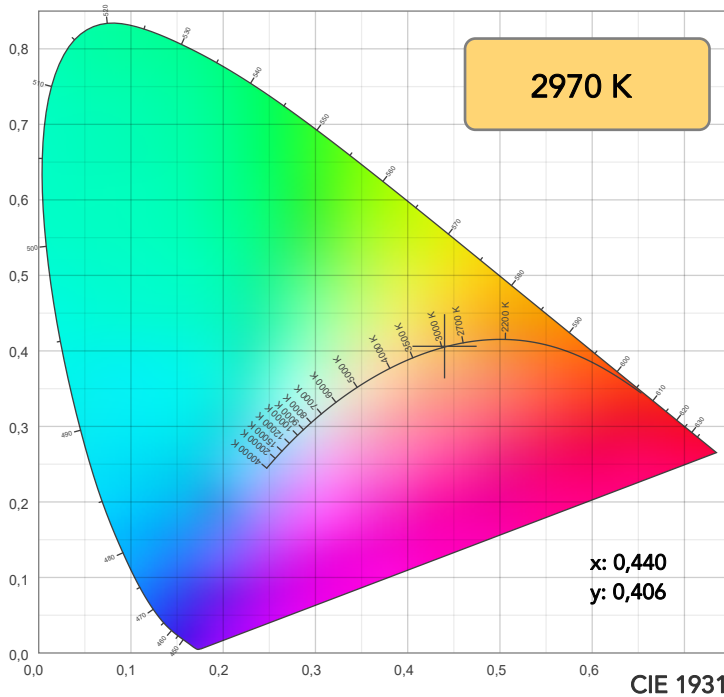
Field angle 10%: 20,1°

Cut off angle 2.5%: 20,8°

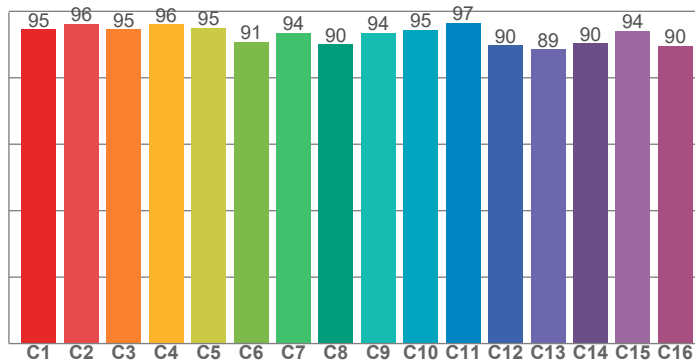
Spectra



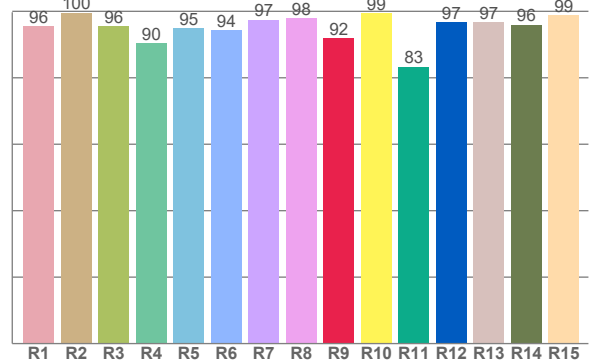
COLOR DETAILS



TM30: 93,5



CRI: 95,7 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95,5	99,6	95,5	90,4	95,0	94,3	97,5	97,9	91,9	99,4	83,3	96,8	96,6	96,0	98,9

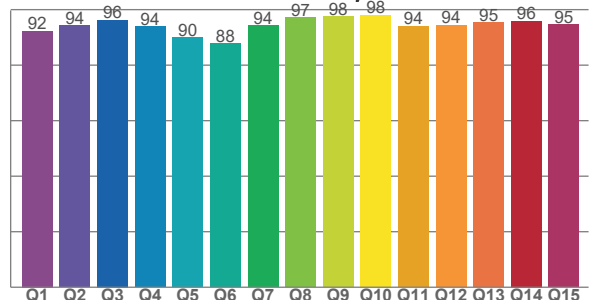
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,5	96,2	94,5	96,1	95,0	90,8	93,6	90,0	93,5	94,5	96,6	89,8	88,5	90,4	94,1	89,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,4	94,2	96,3	93,9	89,9	87,8	94,3	97,1	97,5	98,0	94,0	94,4	95,3	95,9	94,6

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
2970 K	95,7	91,9	93,5	103,5	93,6	84	0,440	0,406	0,0004

TM30 DETAILS

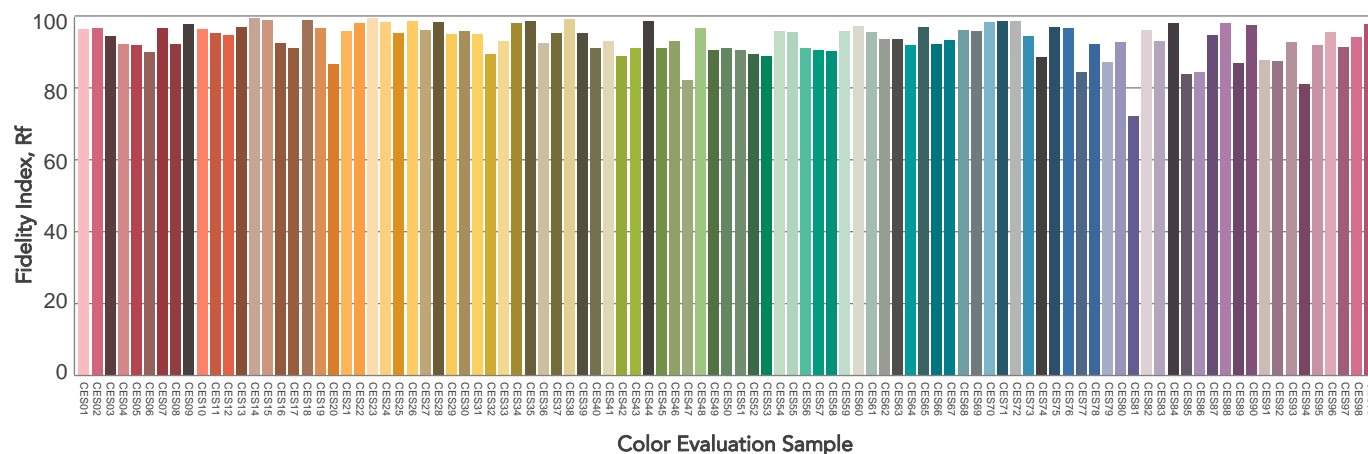
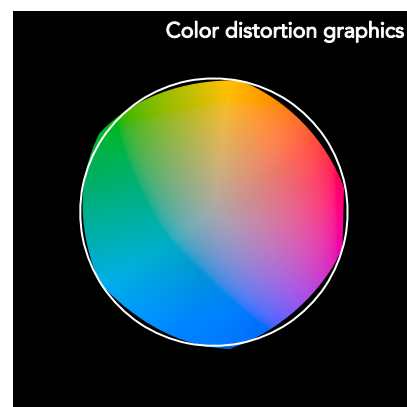
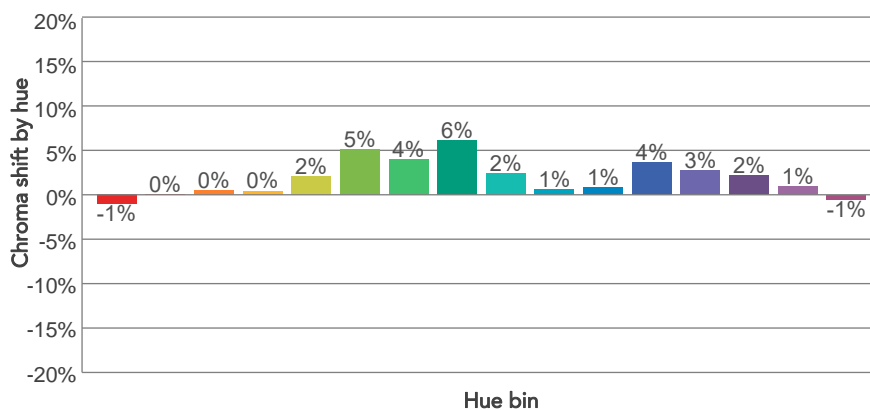
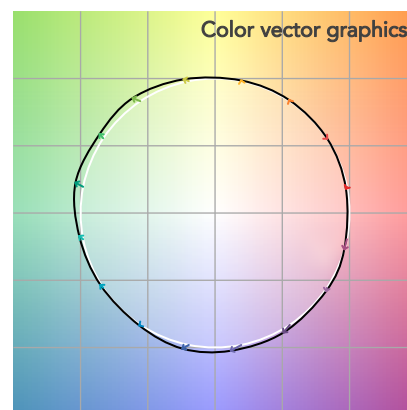
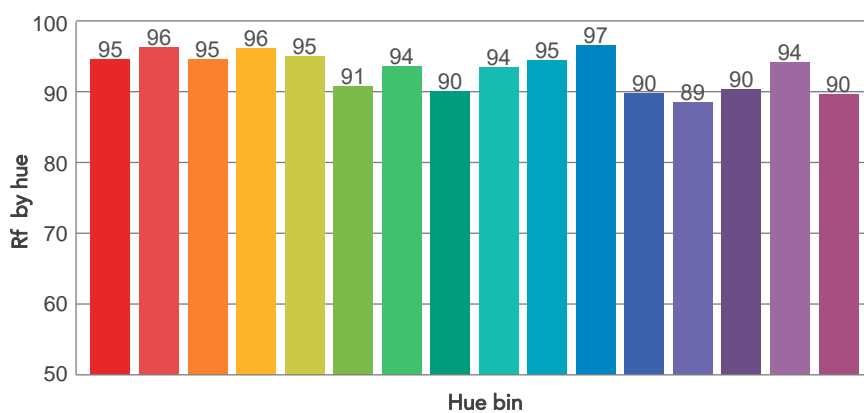
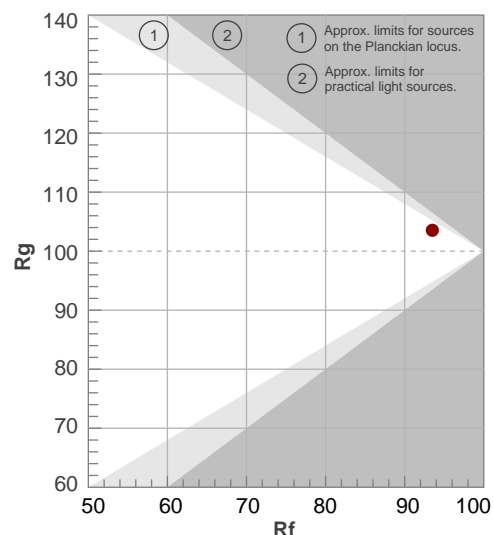
Rf 93,5

Fidelity index R_f

Rg 103,5

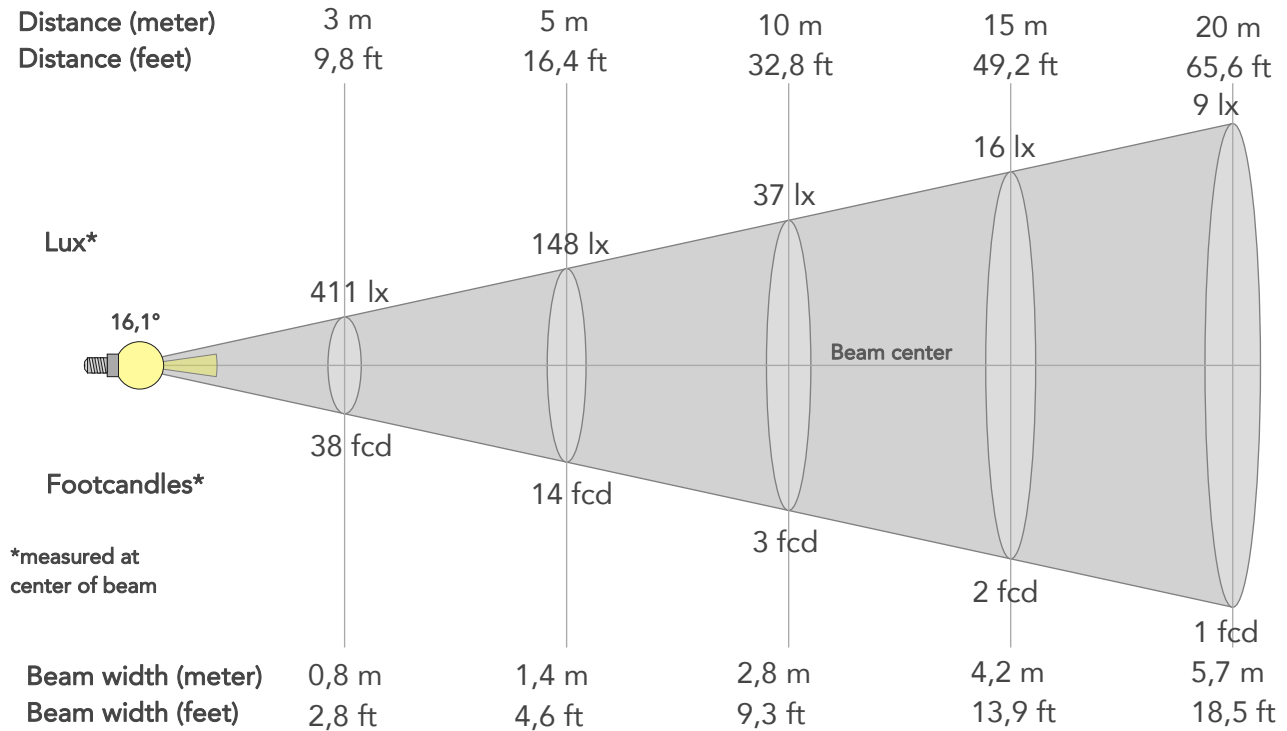
Gammut index

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	95	-1%	-1%
2	96	0%	0%
3	95	0%	1%
4	96	0%	0%
5	95	2%	4%
6	91	5%	3%
7	94	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	90	2%	-7%
15	94	1%	-2%
16	90	-1%	-8%



BEAM DETAILS

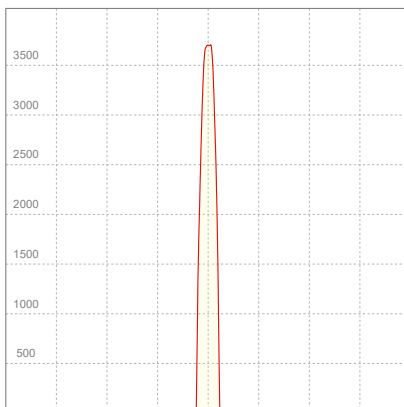
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16,1°	20,1°	20,8°	99,2%	98,9%



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	3702lx	925lx	411lx	231lx	148lx	66lx	37lx	16lx	9lx	6lx	4lx	2lx	1lx
Footcand.	344fcd	86fcd	38fcd	21fcd	14fcd	6fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,8m	1,1m	1,4m	2,1m	2,8m	4,2m	5,7m	7,1m	8,5m	11,3m	14,1m
Beam wid.	0,9ft	1,9ft	2,8ft	3,7ft	4,6ft	7ft	9,3ft	13,9ft	18,5ft	23,2ft	27,8ft	37,1ft	46,4ft

LINEAR DISTRIBUTION DIAGRAM

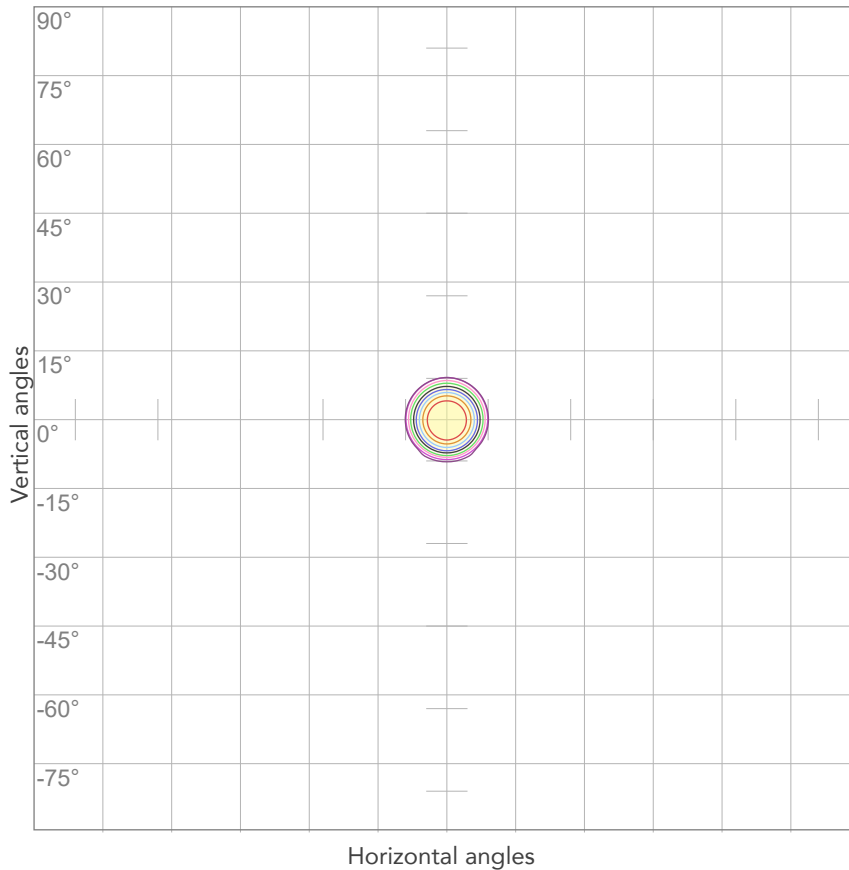


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,113A	23,4W	0,91	10lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



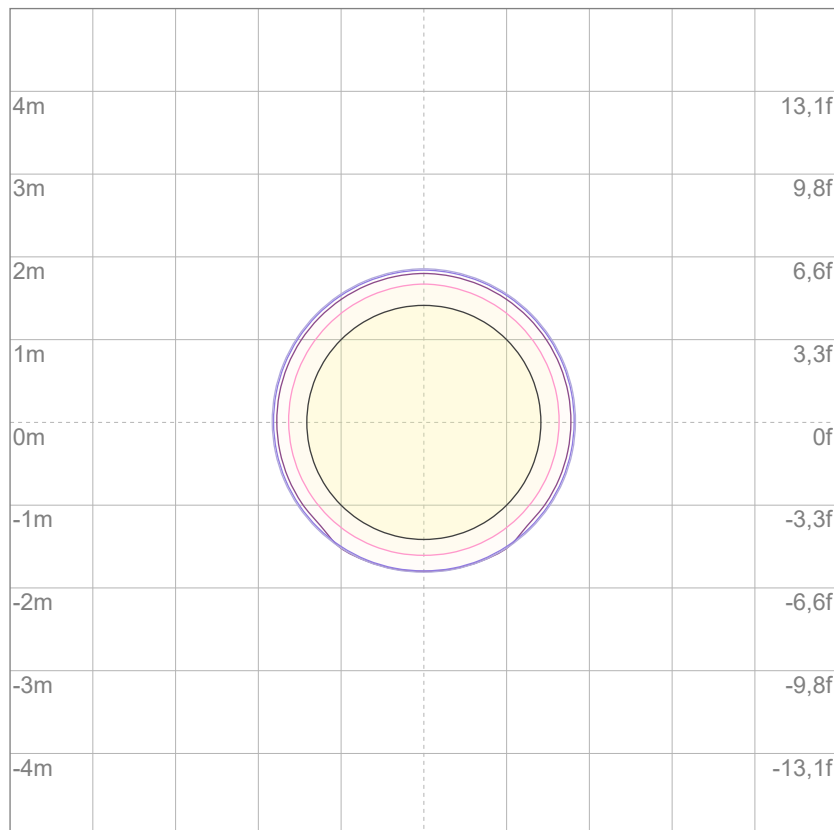
10%	370 cd
20%	740 cd
30%	1111 cd
40%	1481 cd
50%	1851 cd
60%	2221 cd
70%	2591 cd
80%	2961 cd

Conditions:

Number of c-planes: 2

Candela at center: 3702 cd

ISO LUX DIAGRAM



3%	1,11 lx
5%	1,85 lx
10%	3,70 lx
30%	11,1 lx
50%	18,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 37,0 lx

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



Total lumen output:

213 lm

Peak candela output:

945 cd

Light quality:

CRI: 95,5

Color temperature:

3282 K

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 2040 Max Zoom

Target:

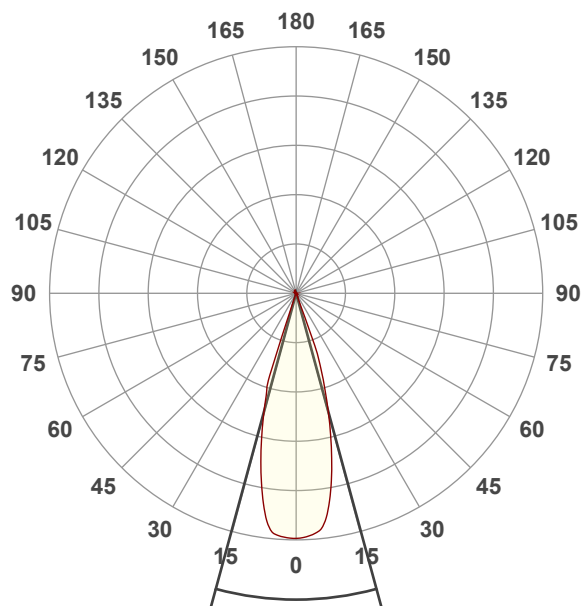
3200K

Operator:

Giacomo Matteo

Date and time:

14/06/2024 10:12:53

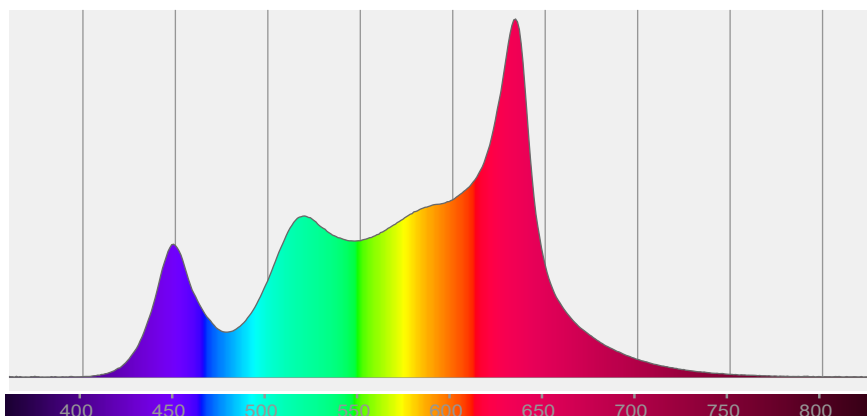


Beam angle 50%: 30,4°

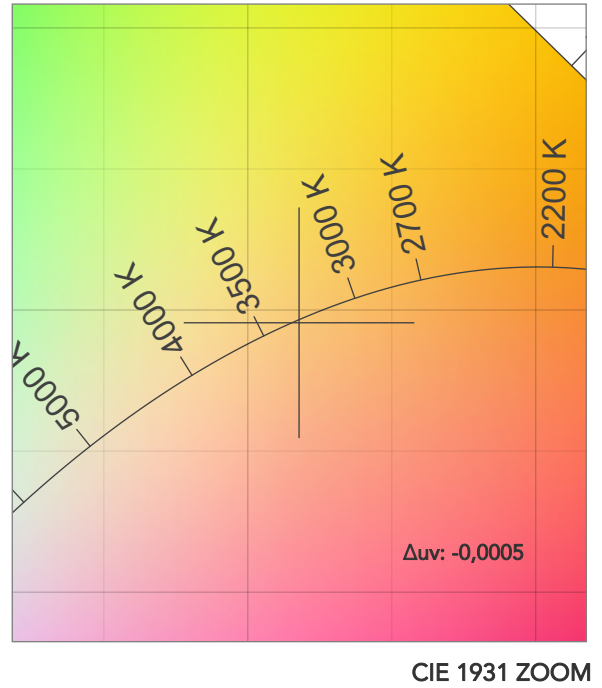
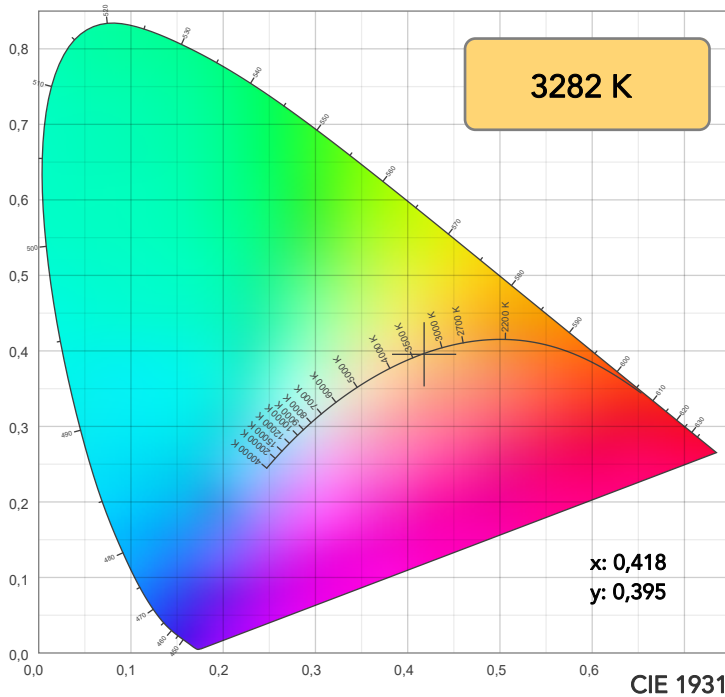
Field angle 10%: 39,5°

Cut off angle 2.5%: 40,9°

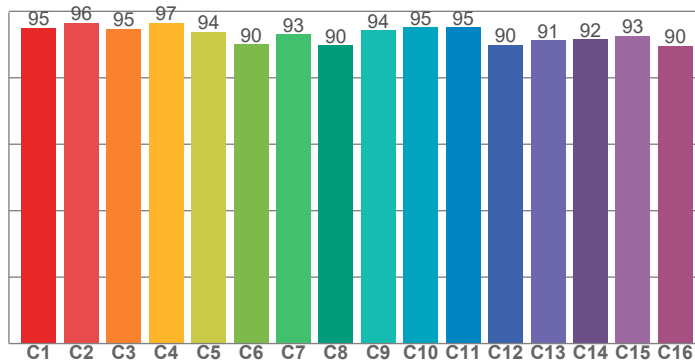
Spectra



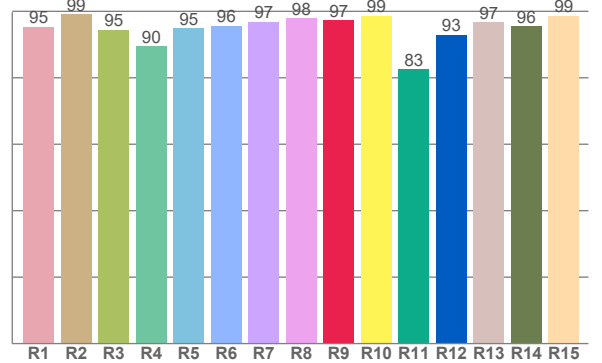
COLOR DETAILS



TM30: 93,6



CRI: 95,5 (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
95,3	99,2	94,5	89,5	95,0	95,6	96,9	97,8	97,3	98,7	82,6	92,9	96,6	95,6	98,7

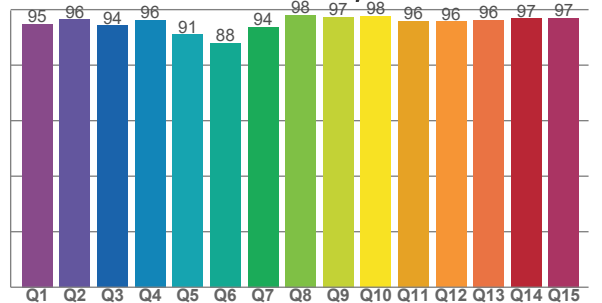
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,1	96,5	94,7	96,6	93,9	90,1	93,1	89,8	94,3	95,2	95,2	89,9	91,2	91,6	92,6	89,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,8	96,4	94,3	96,3	91,0	88,0	93,8	98,0	97,4	97,7	95,8	95,7	96,3	96,8	96,9

CQS: 94,5



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3282 K	95,5	97,3	93,6	104,6	94,5	87	0,418	0,395	-0,0005

TM30 DETAILS

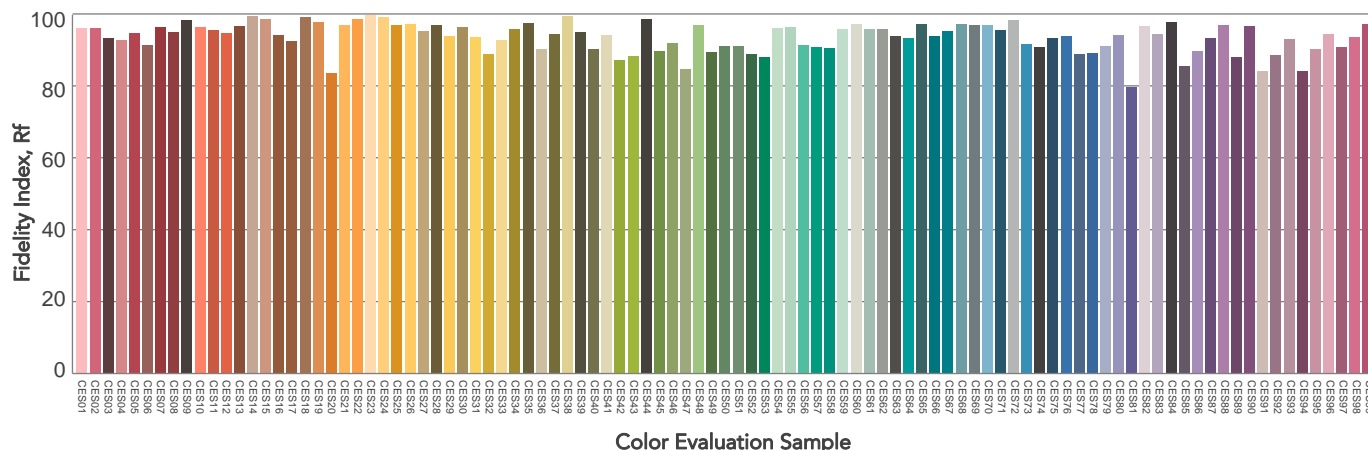
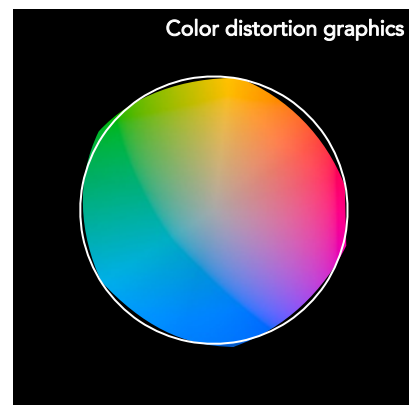
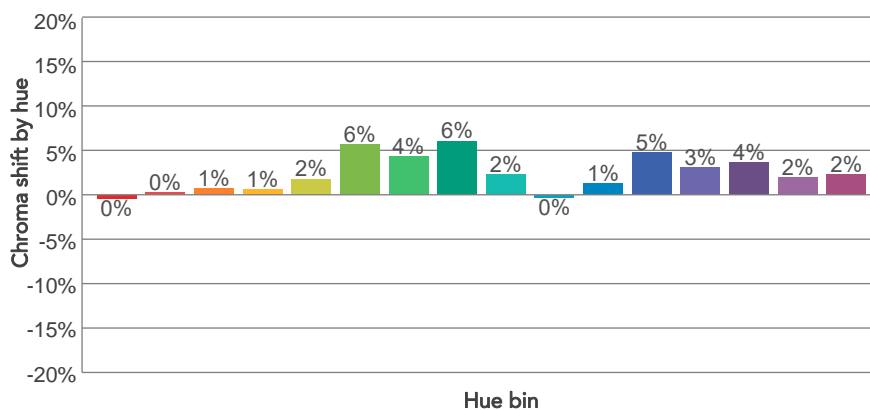
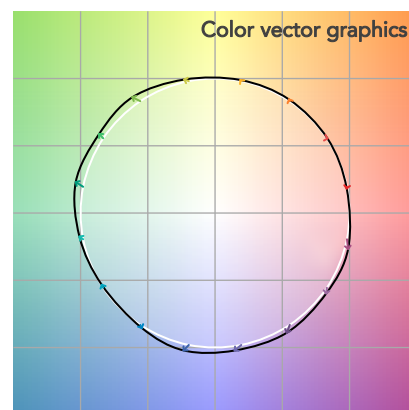
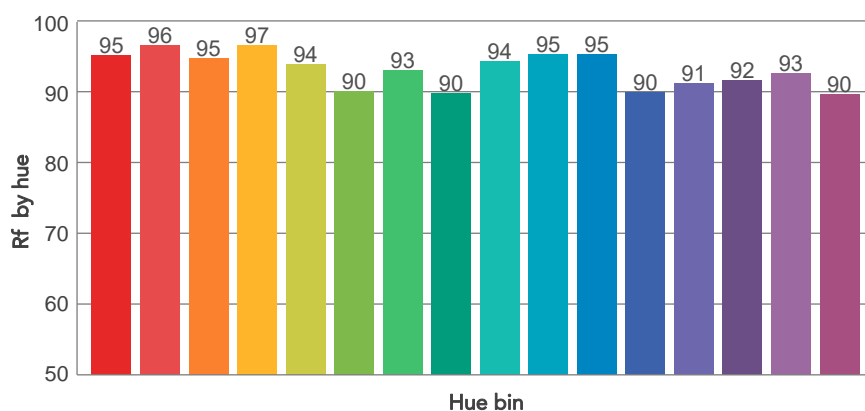
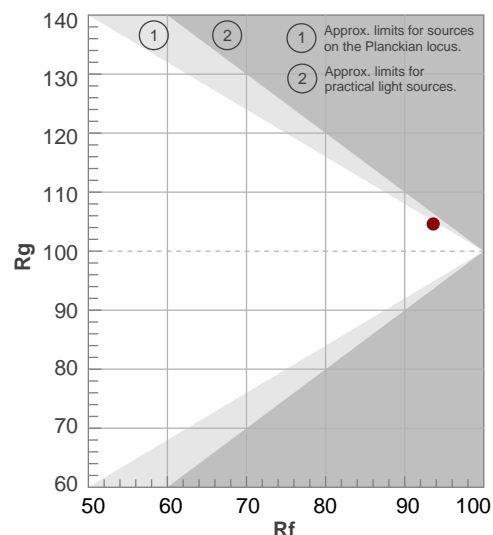
Rf 93,6

Fidelity index Rf

Rg 104,6

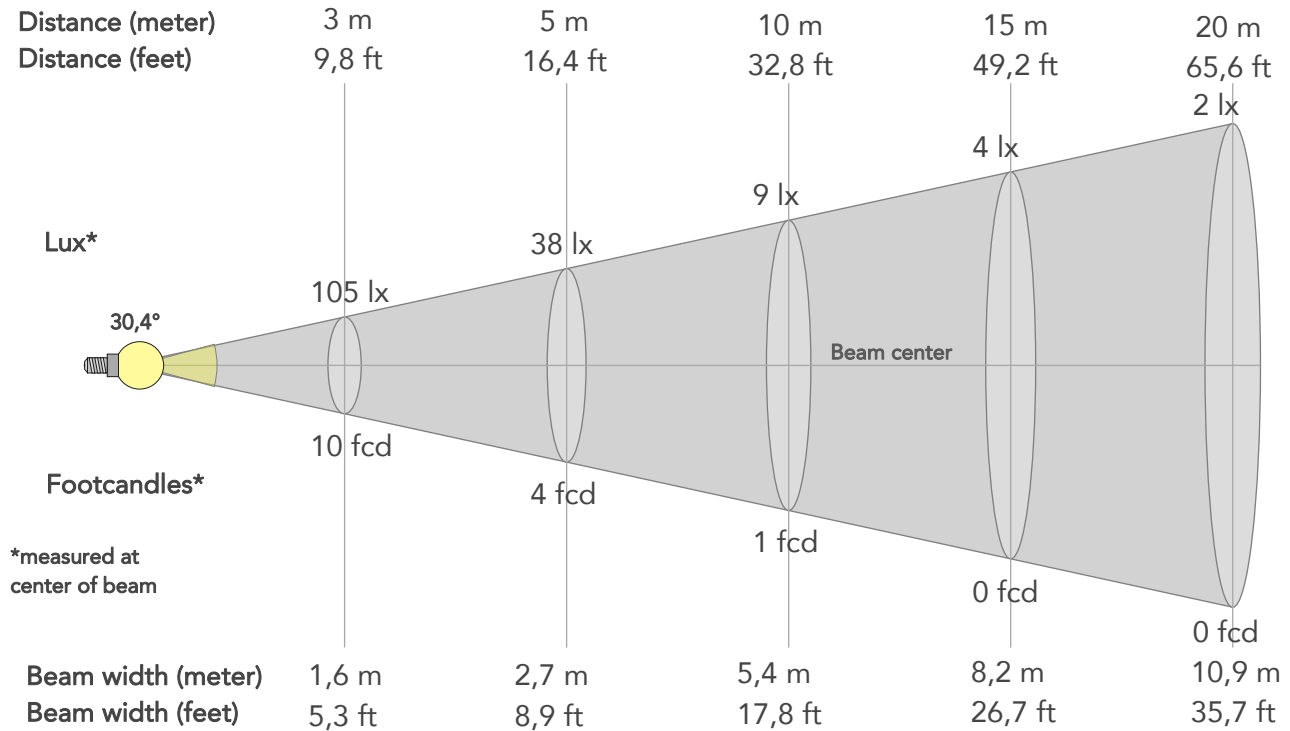
Gammut index

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



BEAM DETAILS

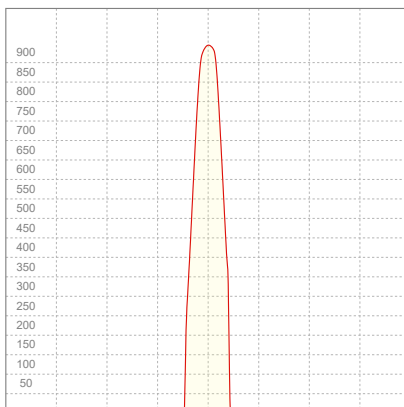
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
30,4°	39,5°	40,9°	99,2%	98,8%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	945lx	236lx	105lx	59lx	38lx	17lx	9lx	4lx	2lx	2lx	1lx	1lx	0lx
Footcand.	88fcd	22fcd	10fcd	5fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1,1m	1,6m	2,2m	2,7m	4,1m	5,4m	8,2m	10,9m	13,6m	16,3m	21,7m	27,2m
Beam wid.	1,8ft	3,6ft	5,3ft	7,1ft	8,9ft	13,4ft	17,8ft	26,7ft	35,7ft	44,6ft	53,5ft	71,3ft	89,1ft

LINEAR DISTRIBUTION DIAGRAM

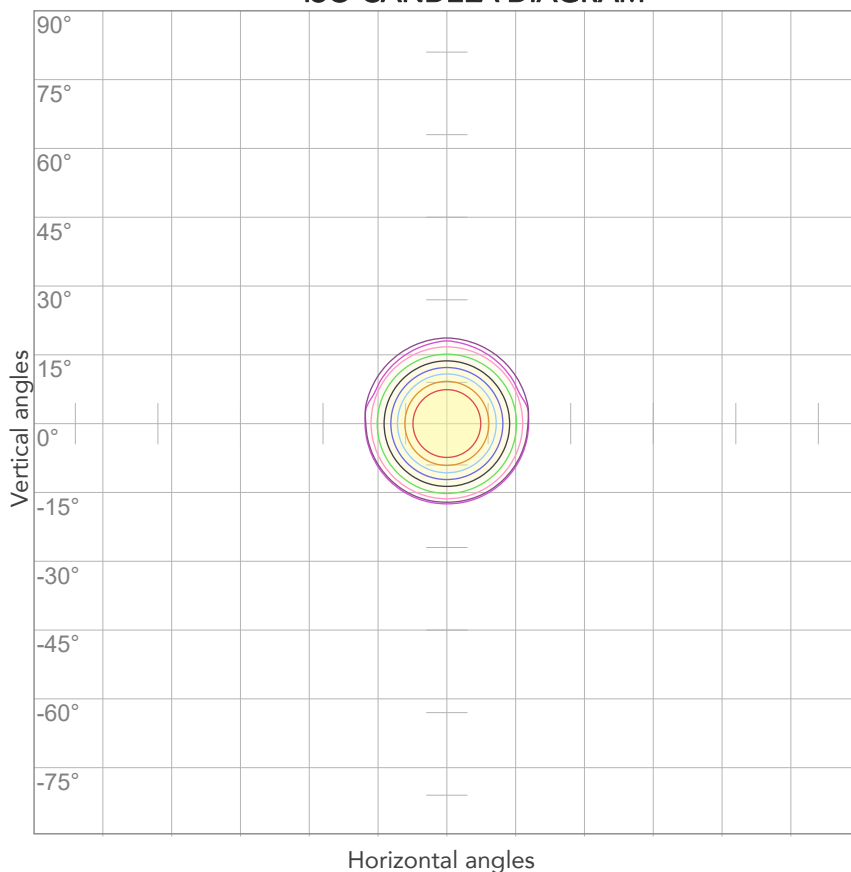


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,112A	23,3W	0,91	9lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



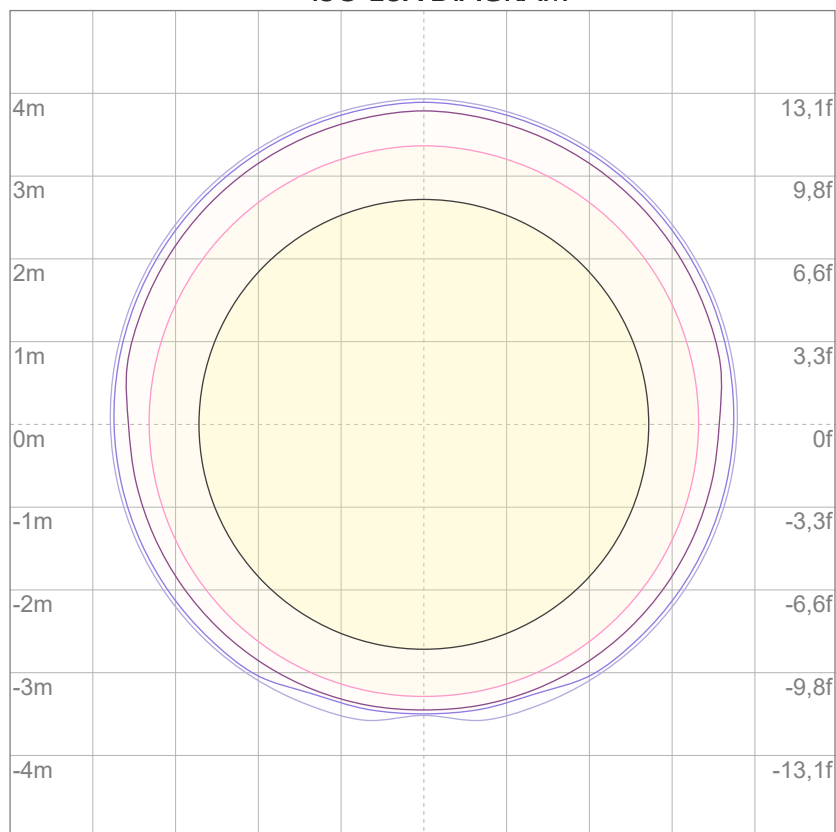
10%	94 cd
20%	189 cd
30%	283 cd
40%	378 cd
50%	472 cd
60%	567 cd
70%	661 cd
80%	756 cd

Conditions:

Number of c-planes: 2

Candela at center: 945 cd

ISO LUX DIAGRAM



3%	0,283 lx
5%	0,472 lx
10%	0,945 lx
30%	2,83 lx
50%	4,72 lx

Conditions:

Number of c-planes: 2

Lux at center: 9,45 lx

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



Total lumen output:

228 lm

Peak candela output:

3748 cd

Light quality:

CRI: 95,6

Color temperature:

3289 K

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 2040 Min Zoom

Target:

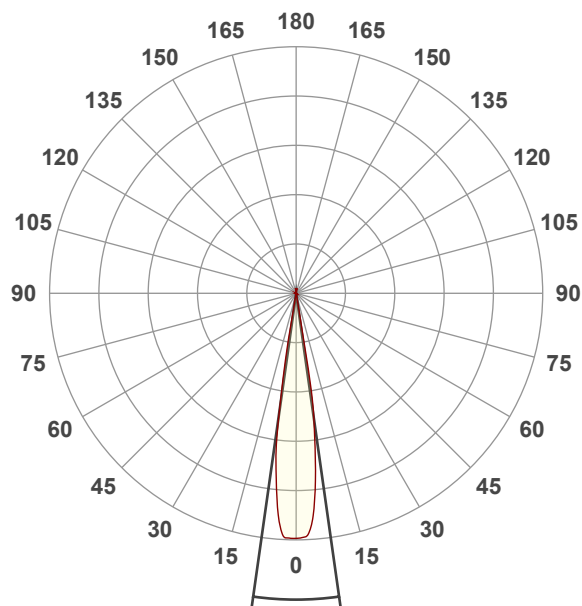
3200K

Operator:

Giacomo Matteo

Date and time:

14/06/2024 09:40:22

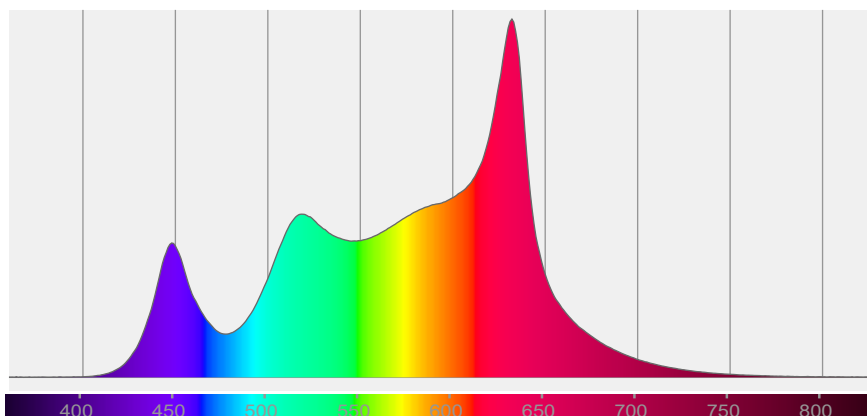


Beam angle 50%: 16,1°

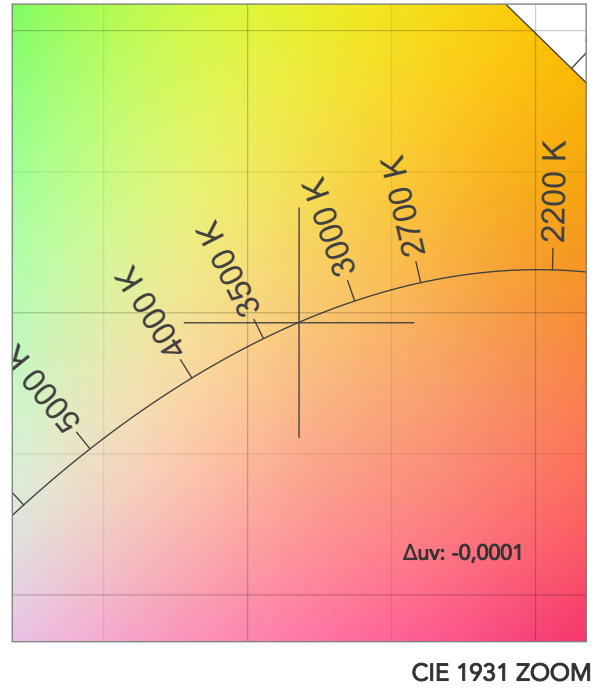
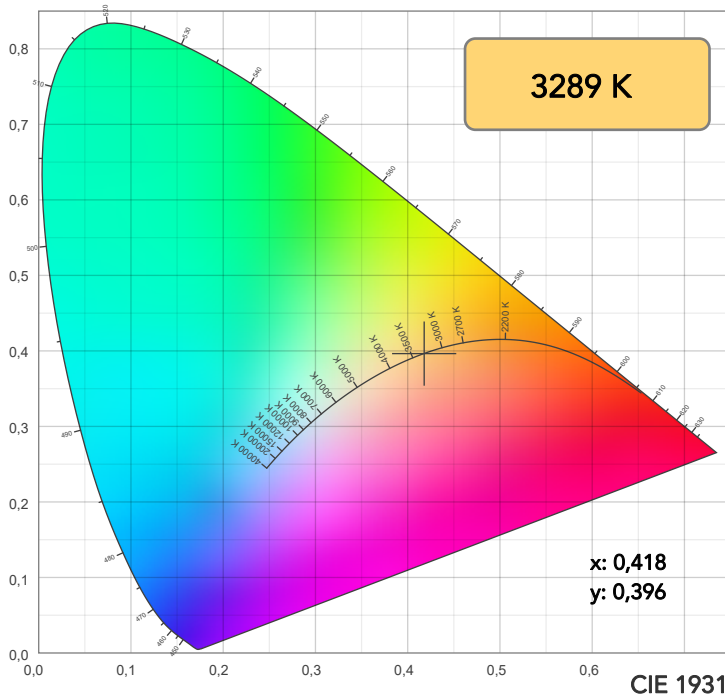
Field angle 10%: 20,1°

Cut off angle 2.5%: 20,8°

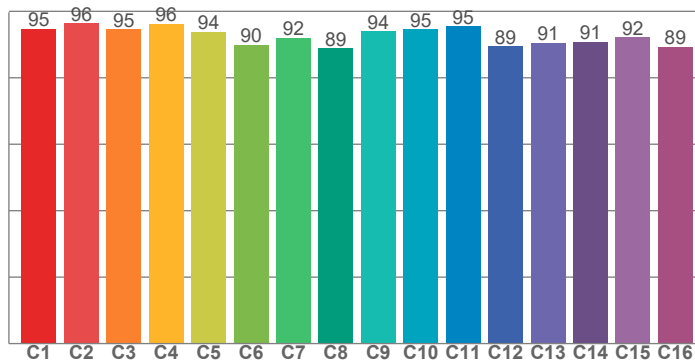
Spectra



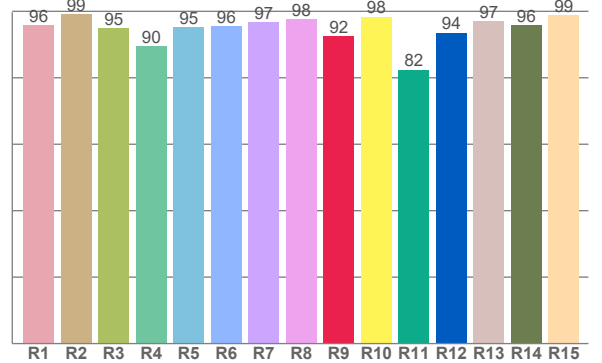
COLOR DETAILS



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	99,1	94,9	89,5	95,3	95,6	96,7	97,7	92,4	98,4	82,5	93,5	97,0	95,8	98,7

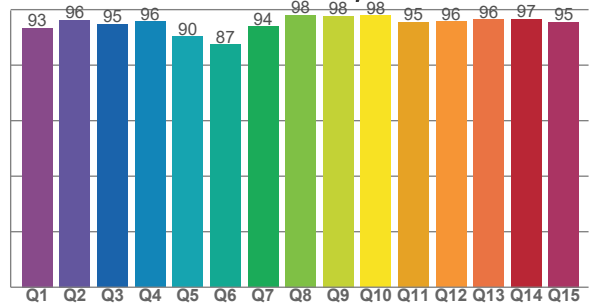
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,7	96,4	94,5	96,3	93,7	89,8	92,0	88,8	94,0	94,5	95,5	89,4	90,6	90,8	92,2	89,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,4	96,2	94,7	95,7	90,3	87,5	94,0	98,0	97,7	97,8	95,5	95,6	96,4	96,6	95,5

CQS: 94,1



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3289 K	95,6	92,4	93,3	104,5	94,1	85	0,418	0,396	-0,0001

TM30 DETAILS

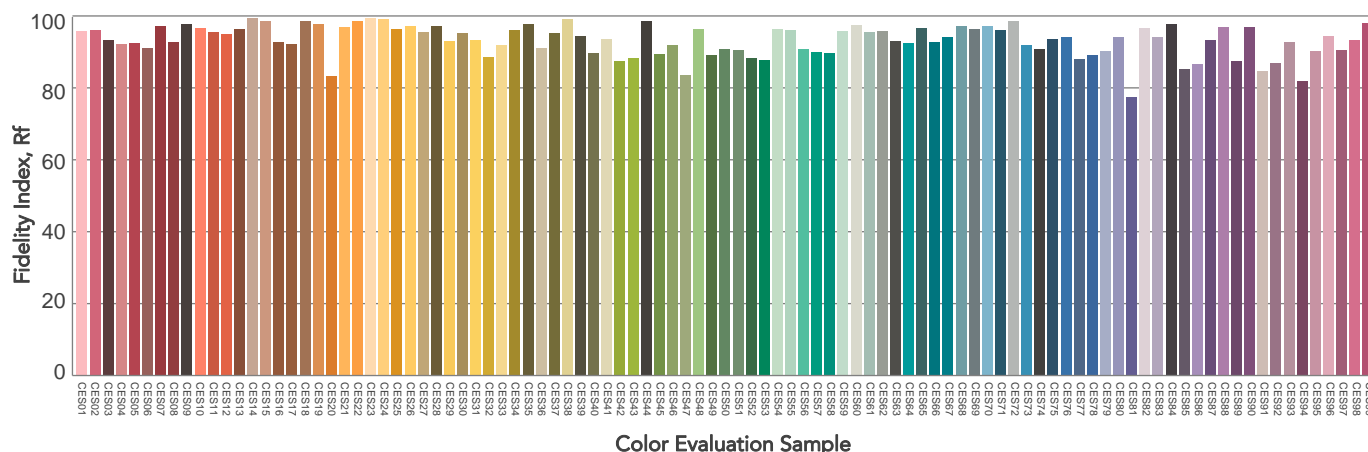
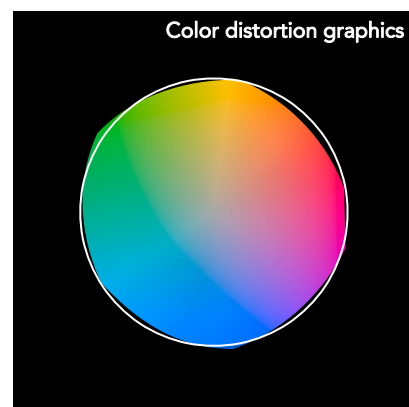
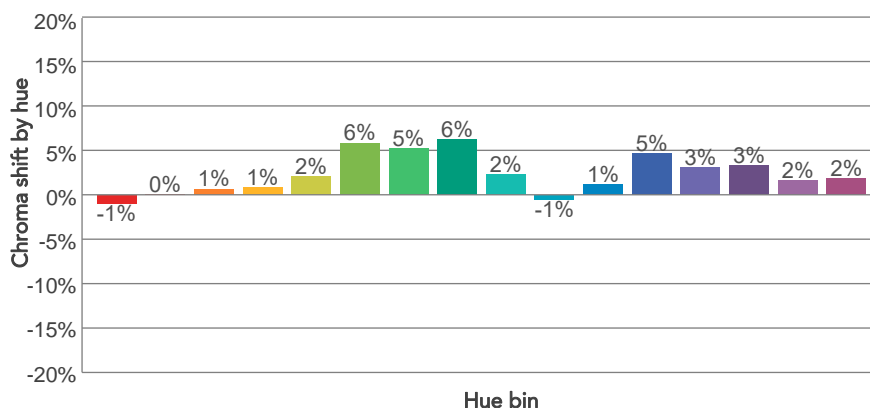
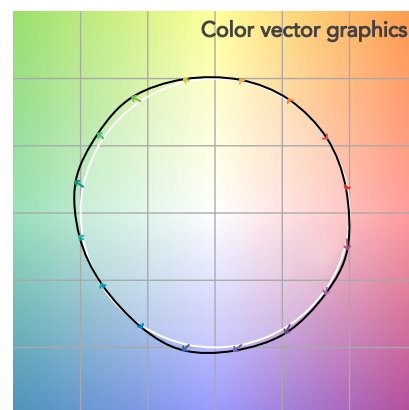
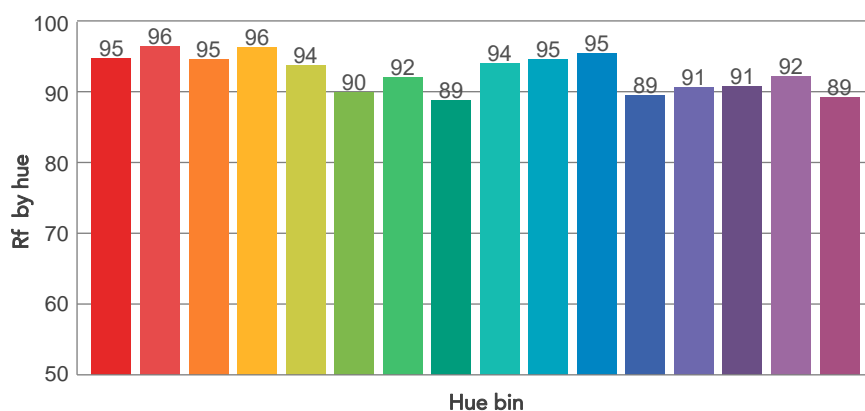
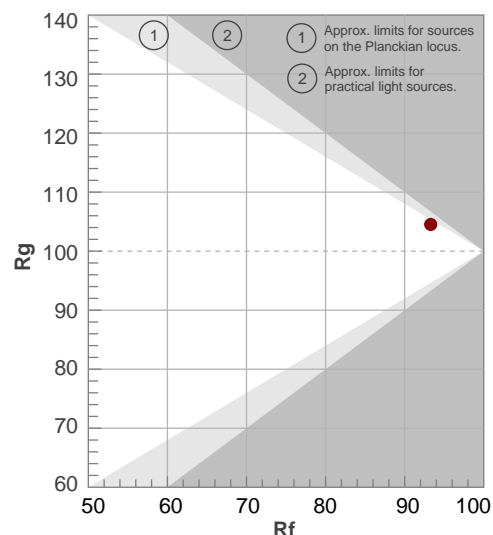
Rf 93,3

Fidelity index Rf

Rg 104,5

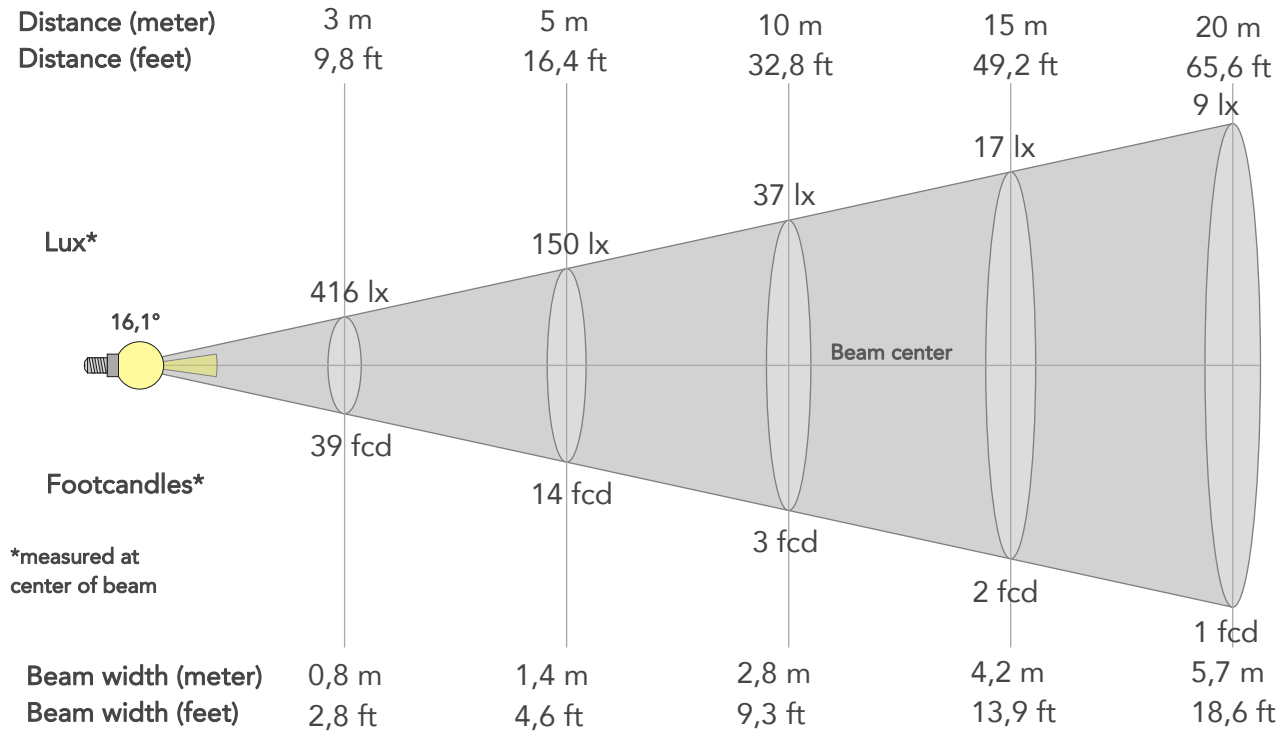
Gammut index

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	92	5%	-1%
8	89	6%	-3%
9	94	2%	-3%
10	95	-1%	-3%
11	95	1%	2%
12	89	5%	-3%
13	91	3%	-6%
14	91	3%	-6%
15	92	2%	-4%
16	89	2%	-7%



BEAM DETAILS

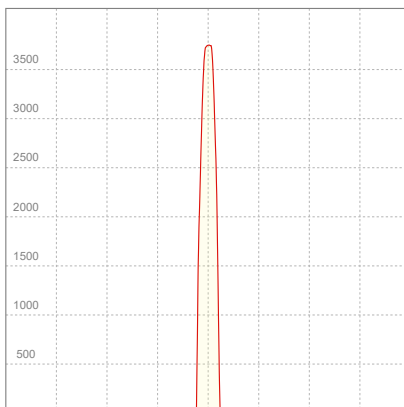
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16,1°	20,1°	20,8°	99,1%	98,8%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	3747lx	937lx	416lx	234lx	150lx	67lx	37lx	17lx	9lx	6lx	4lx	2lx	1lx
Footcand.	348fcd	87fcd	39fcd	22fcd	14fcd	6fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,8m	1,1m	1,4m	2,1m	2,8m	4,2m	5,7m	7,1m	8,5m	11,3m	14,2m
Beam wid.	0,9ft	1,9ft	2,8ft	3,7ft	4,6ft	7ft	9,3ft	13,9ft	18,6ft	23,2ft	27,9ft	37,2ft	46,5ft

LINEAR DISTRIBUTION DIAGRAM

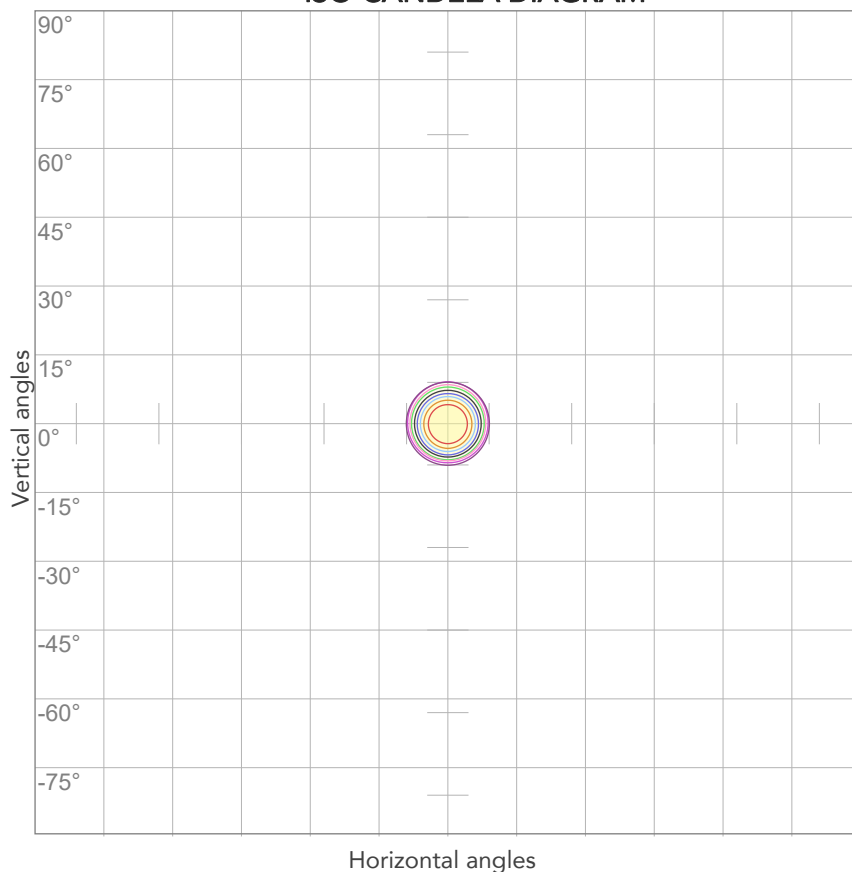


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,115A	23,8W	0,92	10lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



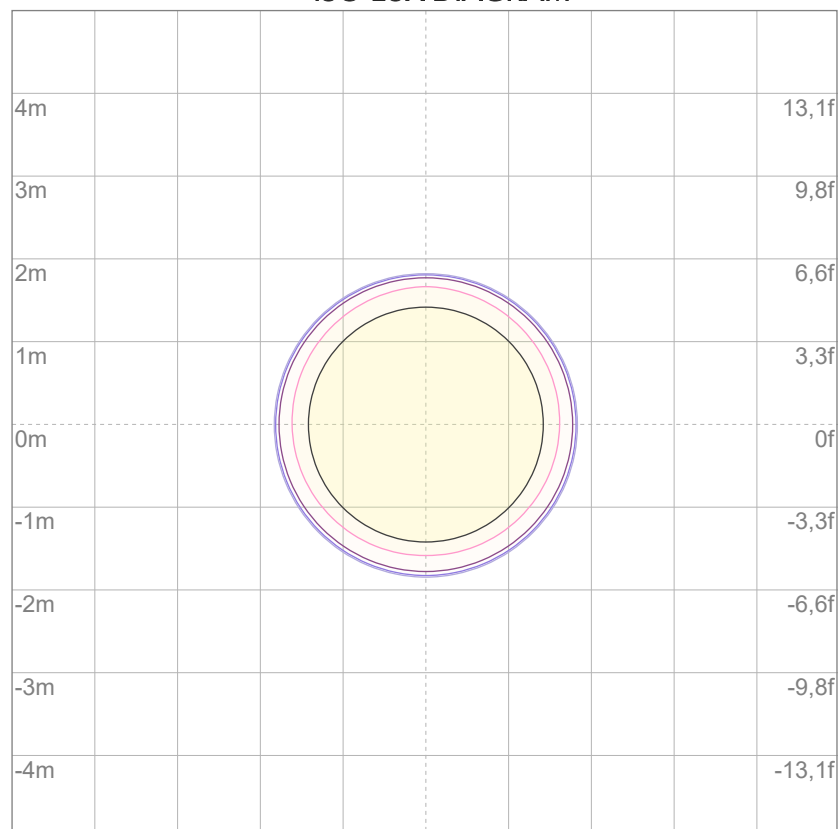
10%	375 cd
20%	749 cd
30%	1124 cd
40%	1499 cd
50%	1873 cd
60%	2248 cd
70%	2623 cd
80%	2997 cd

Conditions:

Number of c-planes: 2

Candela at center: 3747 cd

ISO LUX DIAGRAM



3%	1,12 lx
5%	1,87 lx
10%	3,75 lx
30%	11,2 lx
50%	18,7 lx

Conditions:

Number of c-planes: 2

Lux at center: 37,5 lx

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



Total lumen output:

223 lm

Peak candela output:

988 cd

Light quality:

CRI: 95,2

Color temperature:

4057 K

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 2040 Max Zoom

Target:

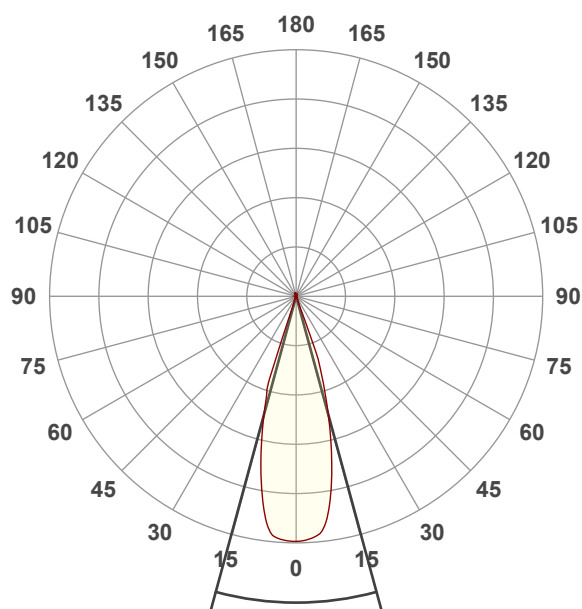
4000K

Operator:

Giacomo Matteo

Date and time:

14/06/2024 10:11:10

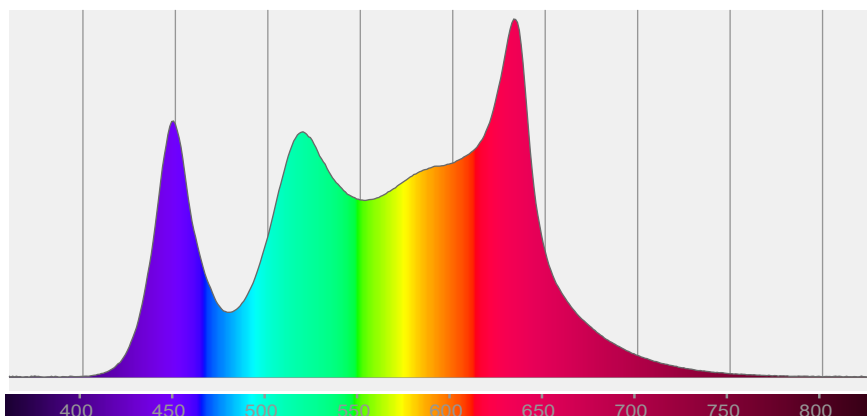


Beam angle 50%: 30,4°

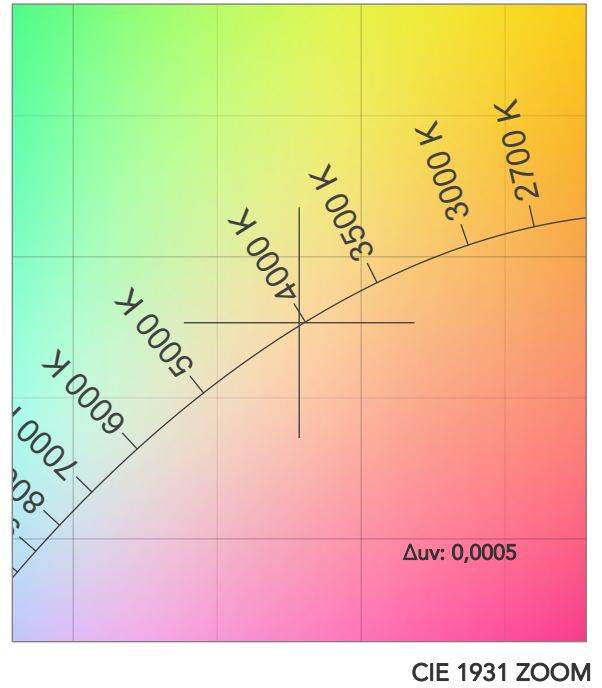
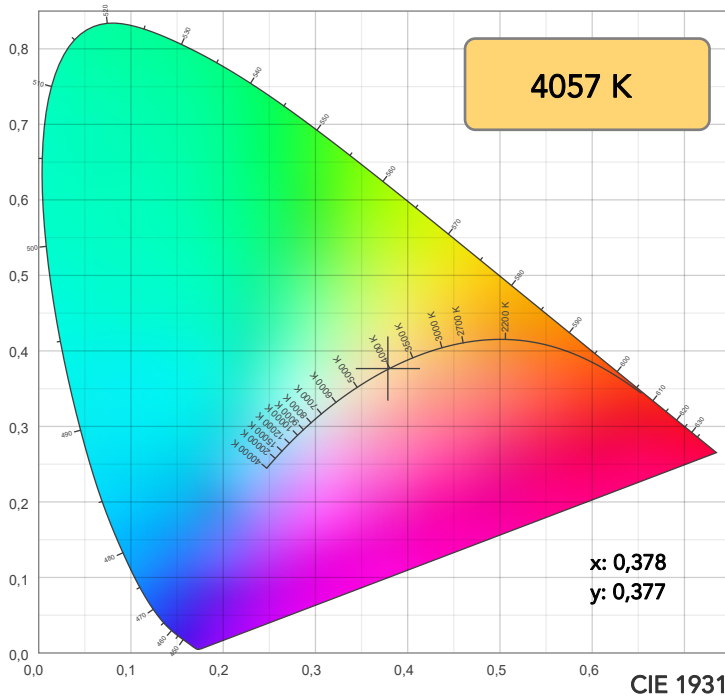
Field angle 10%: 39,5°

Cut off angle 2.5%: 40,5°

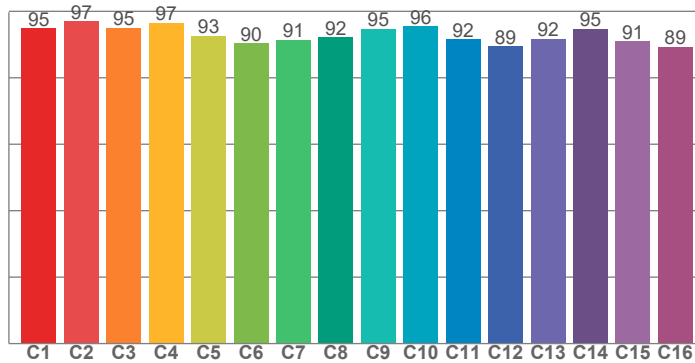
Spectra



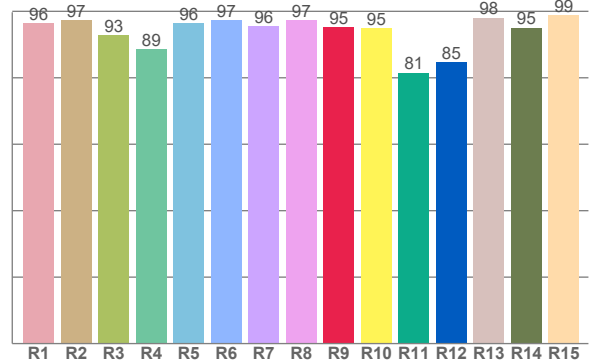
COLOR DETAILS



TM30: 93,2



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
96,5	97,4	92,8	88,6	96,4	97,4	95,5	97,2	95,2	95,0	81,5	84,8	98,0	95,1	98,9

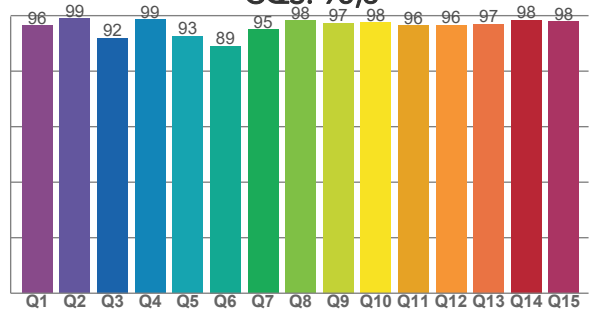
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,4	99,0	91,9	98,6	92,5	89,1	95,0	98,3	97,4	97,5	96,5	96,5	97,0	98,4	97,8

CQS: 95,3



COLOR PARAMETERS

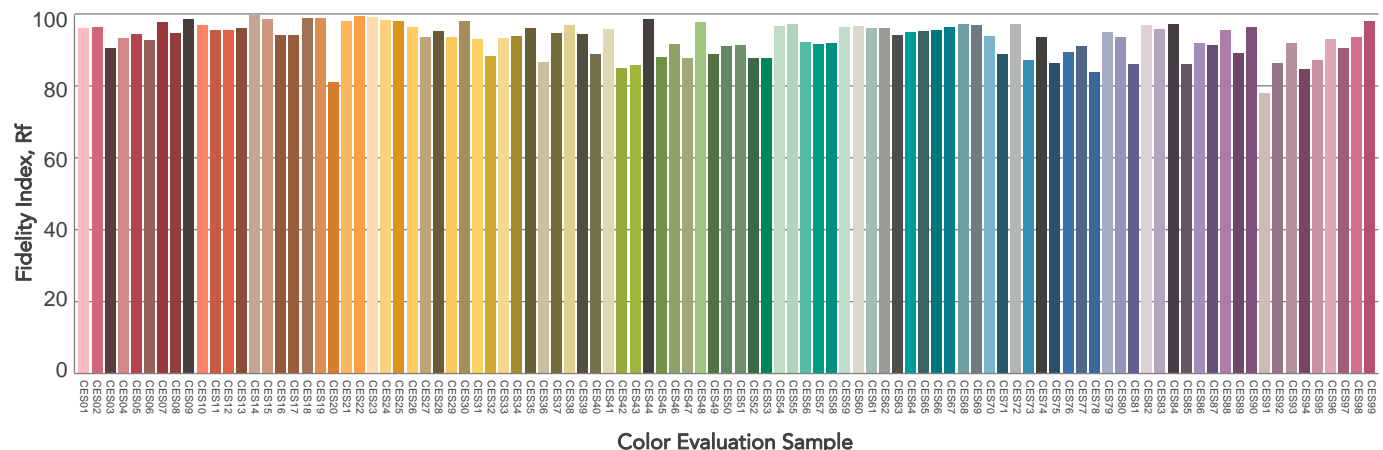
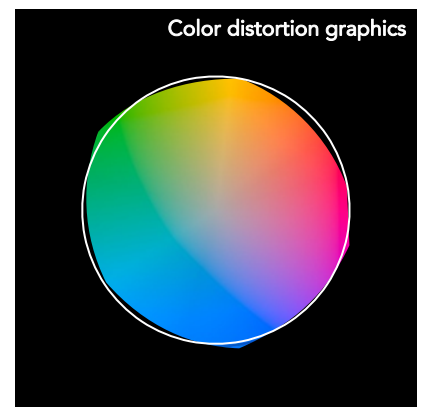
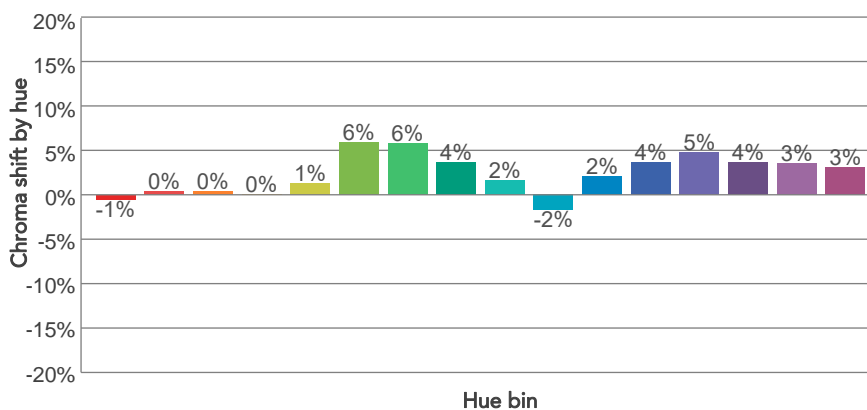
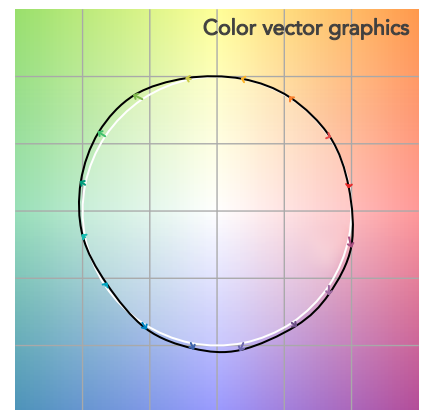
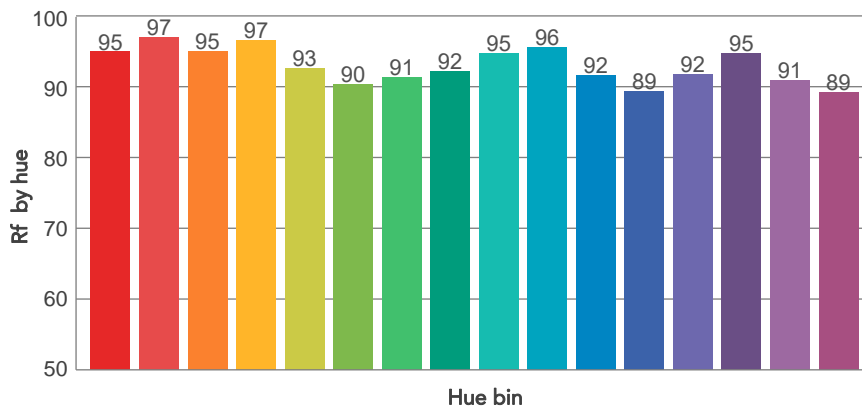
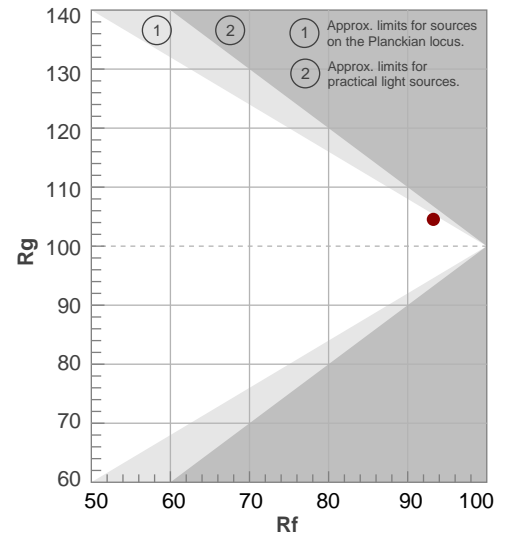
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4057 K	95,2	95,2	93,2	104,5	95,3	85	0,378	0,377	0,0005

TM30 DETAILS

Rf 93,2
Fidelity index Rf

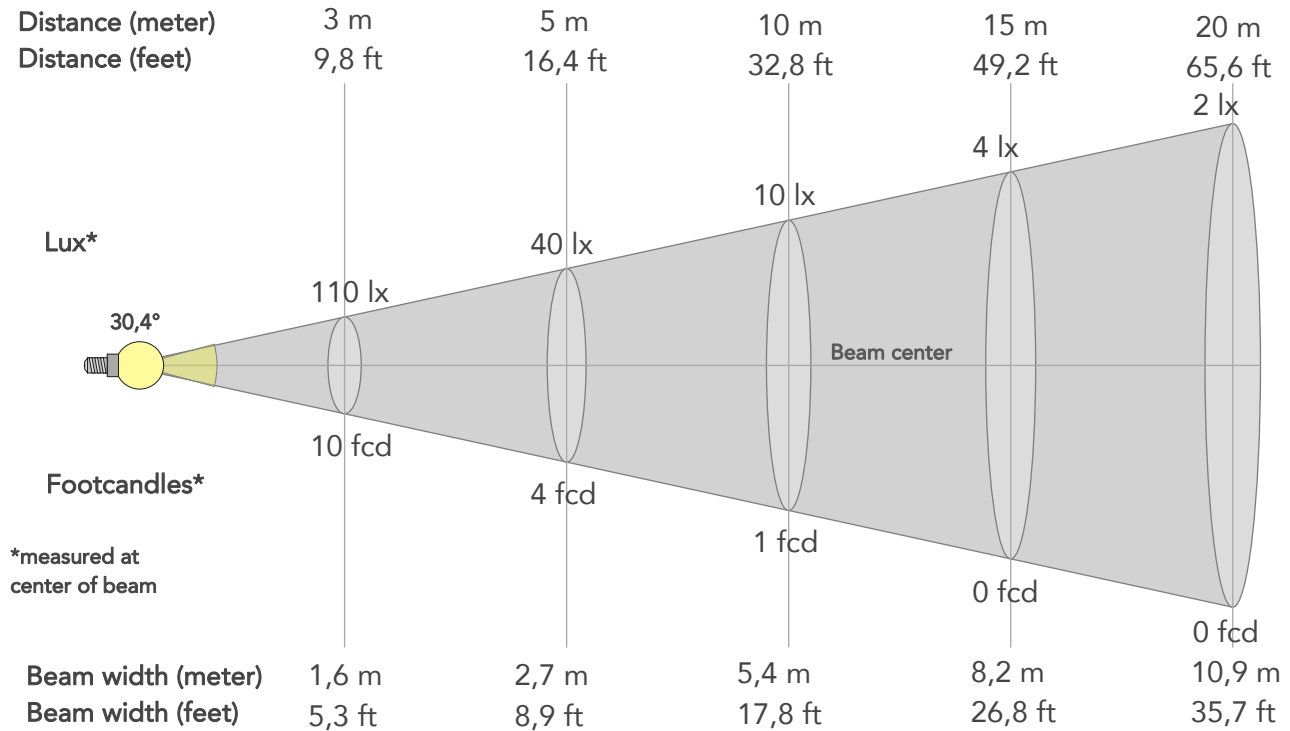
Rg 104,5
Gammut index

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



BEAM DETAILS

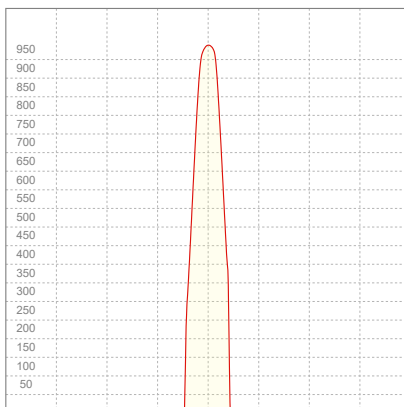
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
30,4°	39,5°	40,5°	99,0%	98,7%



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	988lx	247lx	110lx	62lx	40lx	18lx	10lx	4lx	2lx	2lx	1lx	1lx	0lx
Footcand.	92fcd	23fcd	10fcd	6fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1,1m	1,6m	2,2m	2,7m	4,1m	5,4m	8,2m	10,9m	13,6m	16,3m	21,8m	27,2m
Beam wid.	1,8ft	3,6ft	5,3ft	7,1ft	8,9ft	13,4ft	17,8ft	26,8ft	35,7ft	44,6ft	53,5ft	71,3ft	89,2ft

LINEAR DISTRIBUTION DIAGRAM

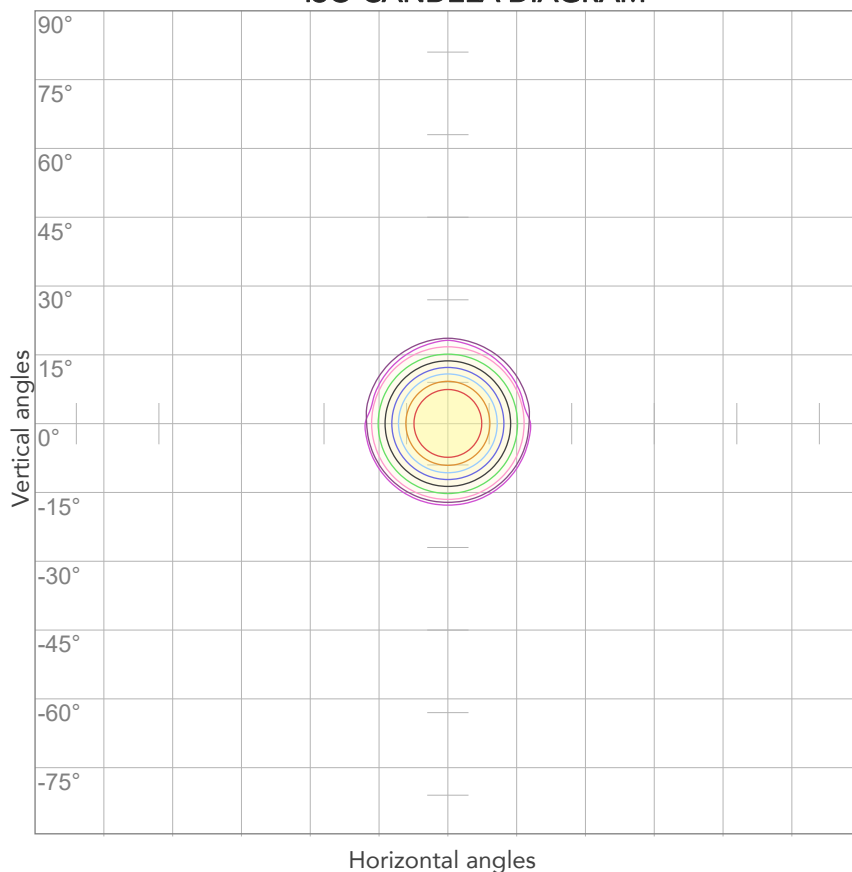


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,118A	24,7W	0,92	9lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



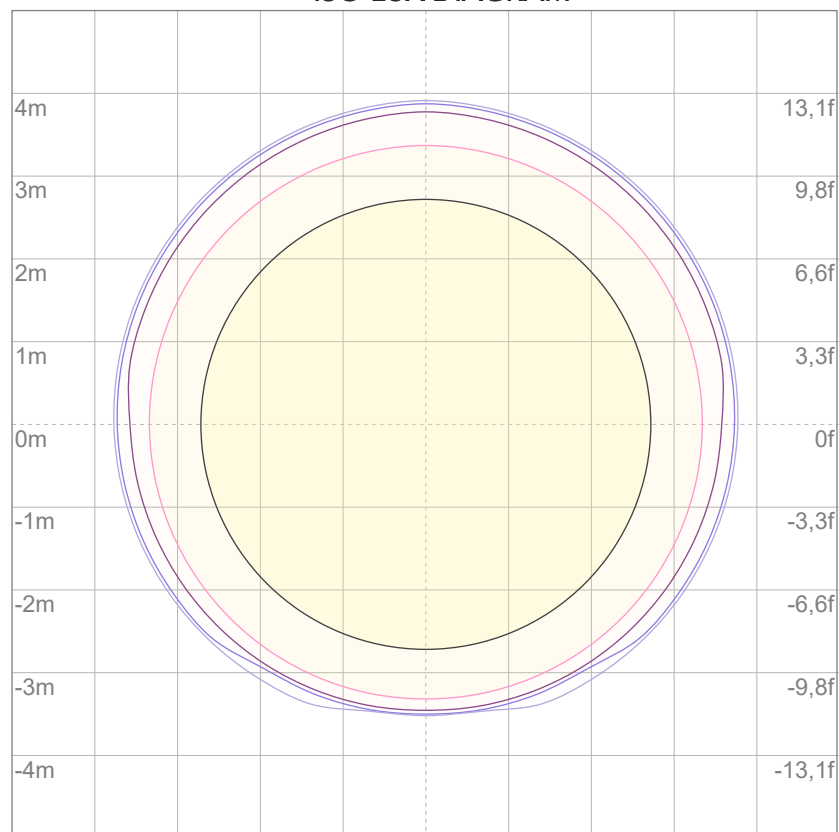
10%	99 cd
20%	198 cd
30%	297 cd
40%	395 cd
50%	494 cd
60%	593 cd
70%	692 cd
80%	791 cd

Conditions:

Number of c-planes: 2

Candela at center: 988 cd

ISO LUX DIAGRAM



3%	0,297 lx
5%	0,494 lx
10%	0,988 lx
30%	2,97 lx
50%	4,94 lx

Conditions:

Number of c-planes: 2

Lux at center: 9,88 lx

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



Total lumen output:

236 lm

Peak candela output:

3876 cd

Light quality:

CRI: 95,2

Color temperature:

4077 K

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 2040 Min Zoom

Target:

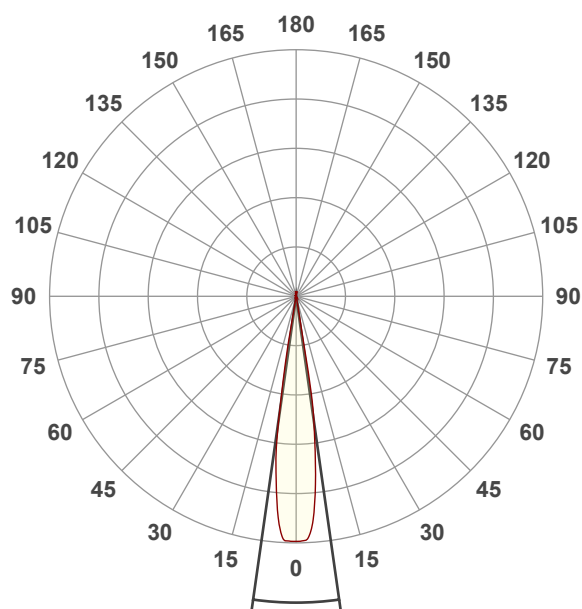
4000K

Operator:

Giacomo Matteo

Date and time:

14/06/2024 09:44:18

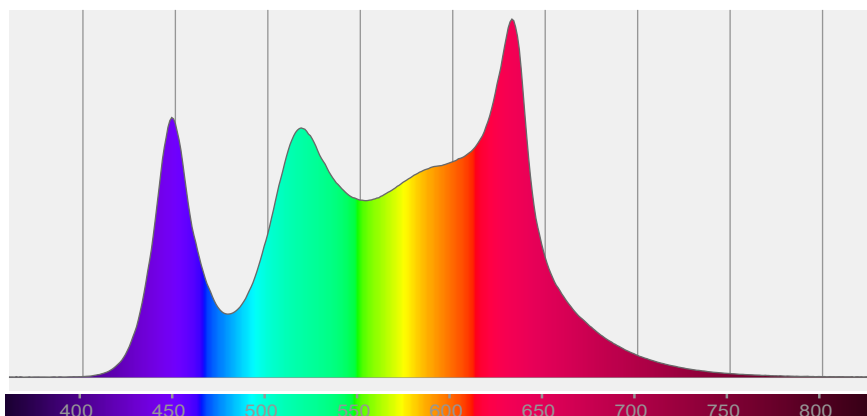


Beam angle 50%: 16,1°

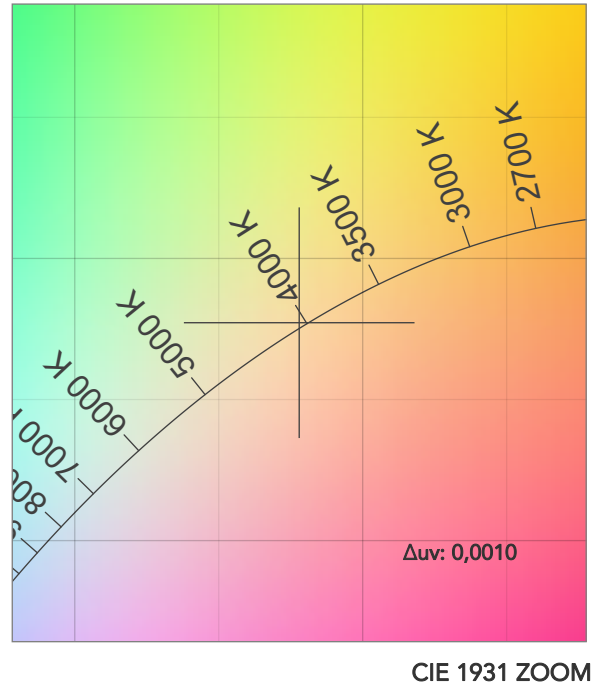
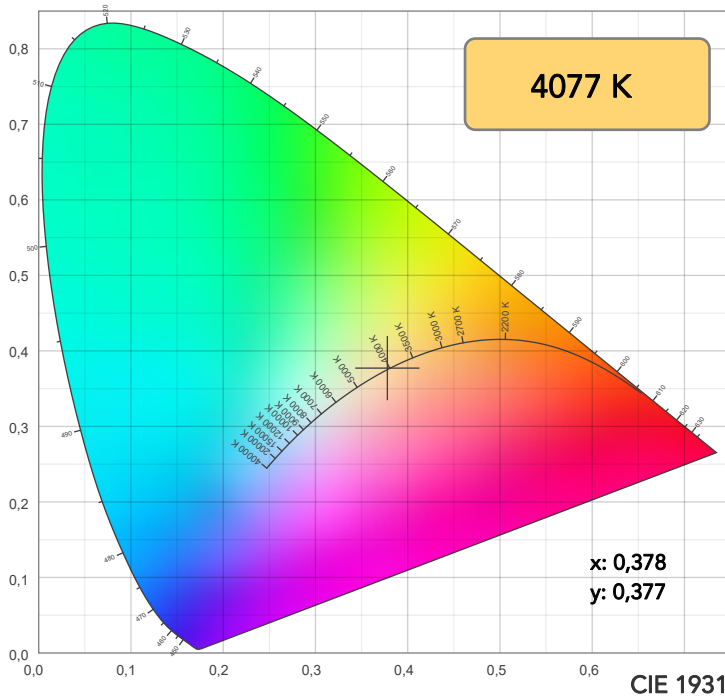
Field angle 10%: 20,1°

Cut off angle 2.5%: 20,8°

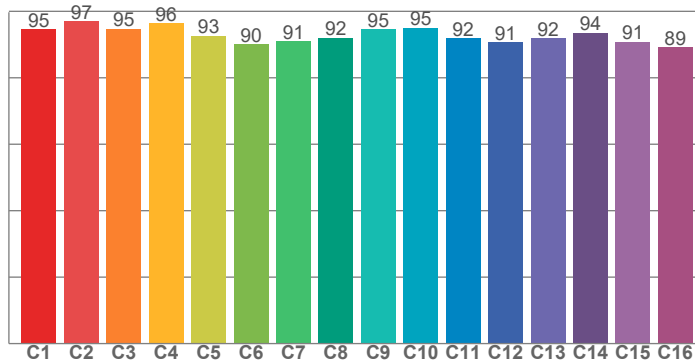
Spectra



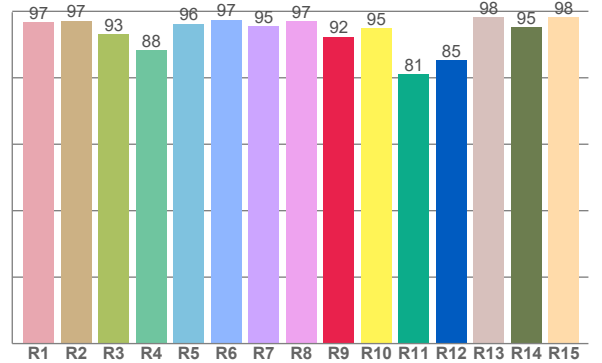
COLOR DETAILS



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
96,7	97,2	93,1	88,3	96,3	97,5	95,4	97,1	92,3	94,9	81,0	85,2	98,3	95,2	98,3

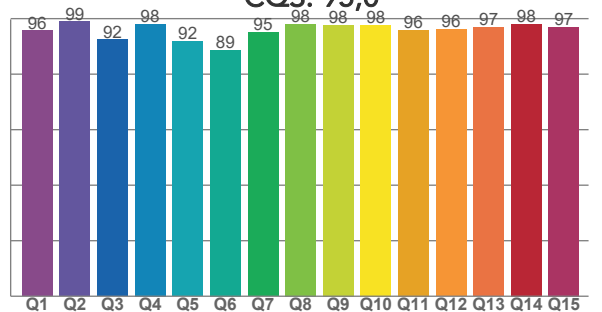
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,6	97,0	94,7	96,3	92,7	90,1	90,9	92,1	94,6	95,1	91,8	90,6	91,9	93,6	90,8	89,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,6	98,9	92,4	98,1	91,8	88,7	95,1	98,1	97,7	97,7	95,9	96,2	96,9	98,1	97,0

CQS: 95,0



COLOR PARAMETERS

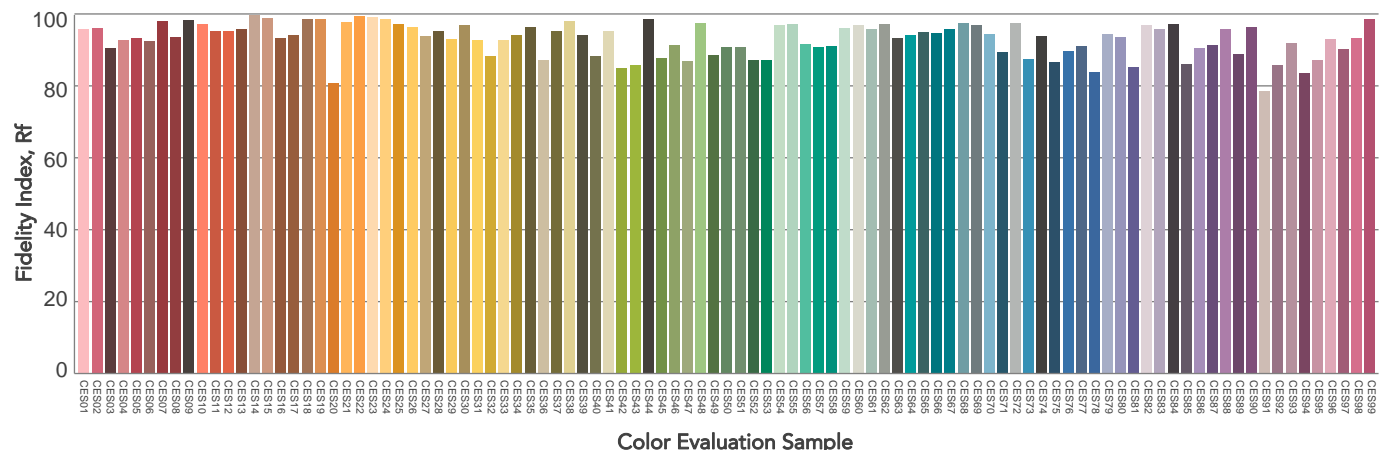
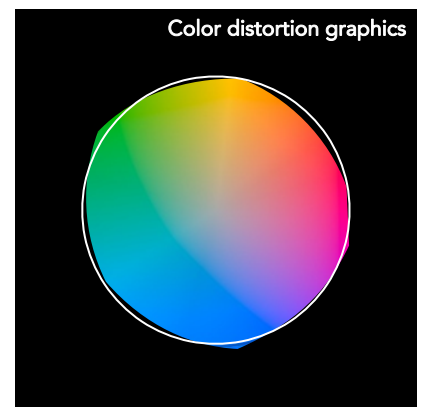
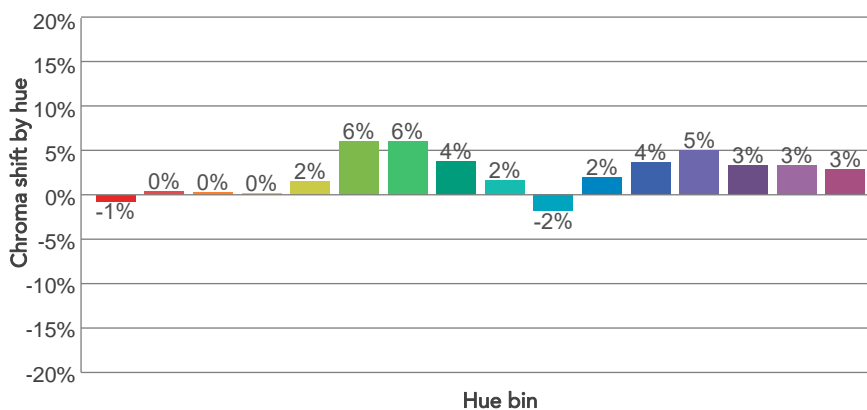
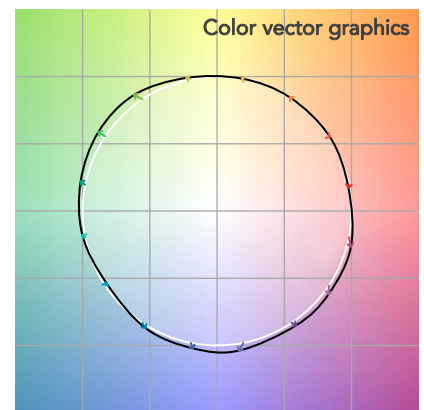
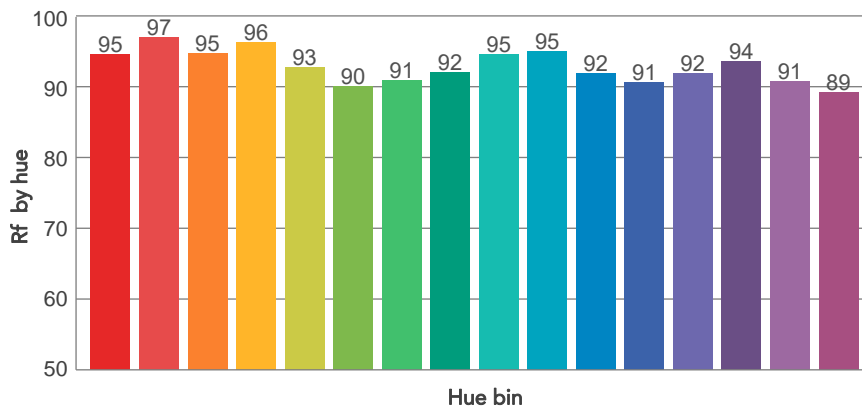
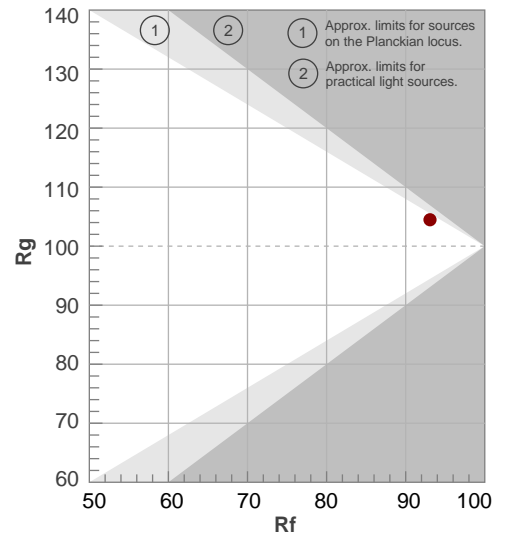
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4077 K	95,2	92,3	93,1	104,5	95,0	84	0,378	0,377	0,0010

TM30 DETAILS

Rf 93,1
Fidelity index Rf

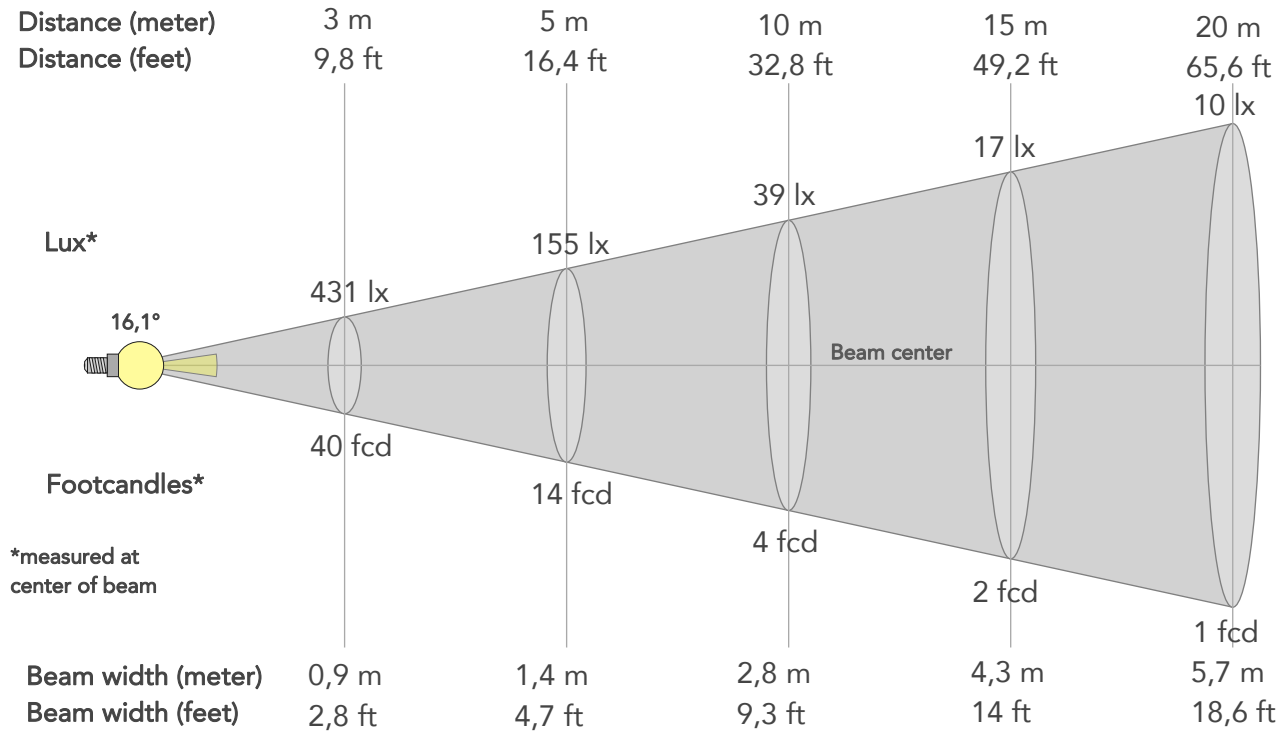
Rg 104,5
Gammut index

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	91	4%	2%
13	92	5%	-4%
14	94	3%	2%
15	91	3%	-5%
16	89	3%	-6%



BEAM DETAILS

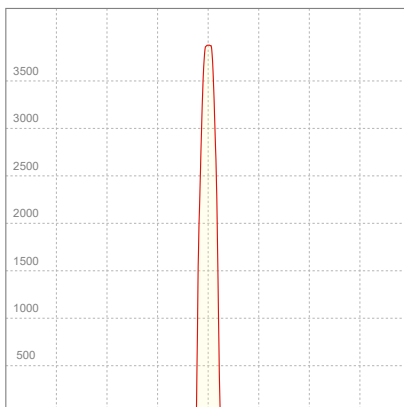
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16,1°	20,1°	20,8°	99,2%	98,9%



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	3876lx	969lx	431lx	242lx	155lx	69lx	39lx	17lx	10lx	6lx	4lx	2lx	2lx
Footcand.	360fcd	90fcd	40fcd	23fcd	14fcd	6fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,9m	1,1m	1,4m	2,1m	2,8m	4,3m	5,7m	7,1m	8,5m	11,3m	14,2m
Beam wid.	0,9ft	1,9ft	2,8ft	3,7ft	4,7ft	7ft	9,3ft	14ft	18,6ft	23,3ft	27,9ft	37,2ft	46,5ft

LINEAR DISTRIBUTION DIAGRAM

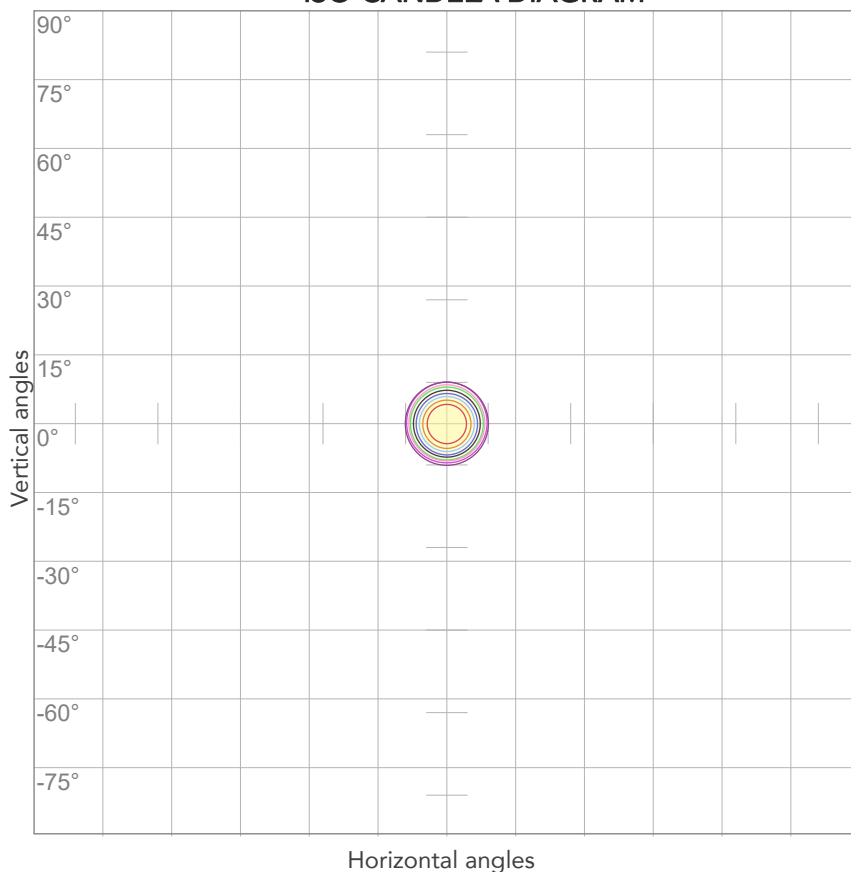


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,120A	25,1W	0,92	9lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



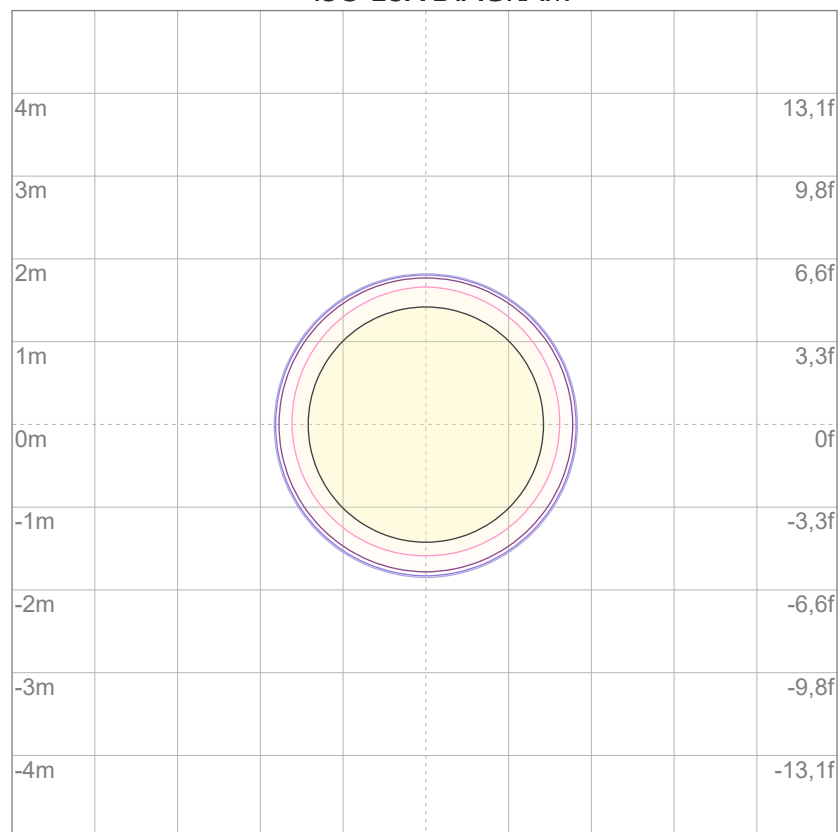
10%	388 cd
20%	775 cd
30%	1163 cd
40%	1550 cd
50%	1938 cd
60%	2325 cd
70%	2713 cd
80%	3101 cd

Conditions:

Number of c-planes: 2

Candela at center: 3876 cd

ISO LUX DIAGRAM



3%	1,16 lx
5%	1,94 lx
10%	3,88 lx
30%	11,6 lx
50%	19,4 lx

Conditions:

Number of c-planes: 2

Lux at center: 38,8 lx

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



Total lumen output:

240 lm

Peak candela output:

1061 cd

Light quality:

CRI: 92,7

Color temperature:

5666 K

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 2040 Max Zoom

Target:

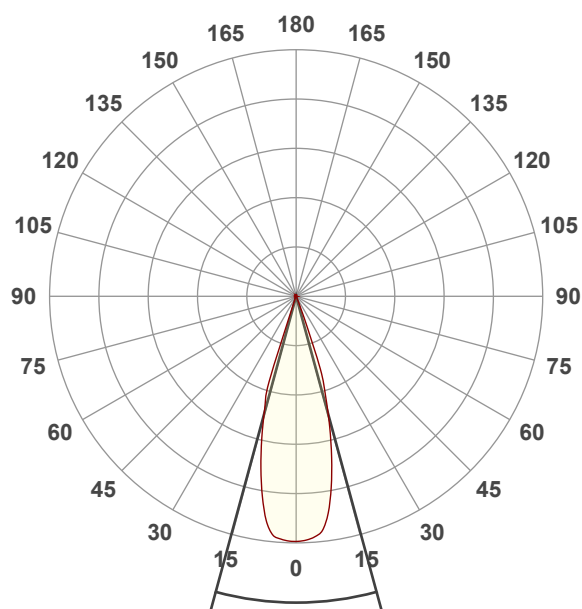
5600K

Operator:

Giacomo Matteo

Date and time:

14/06/2024 10:09:05

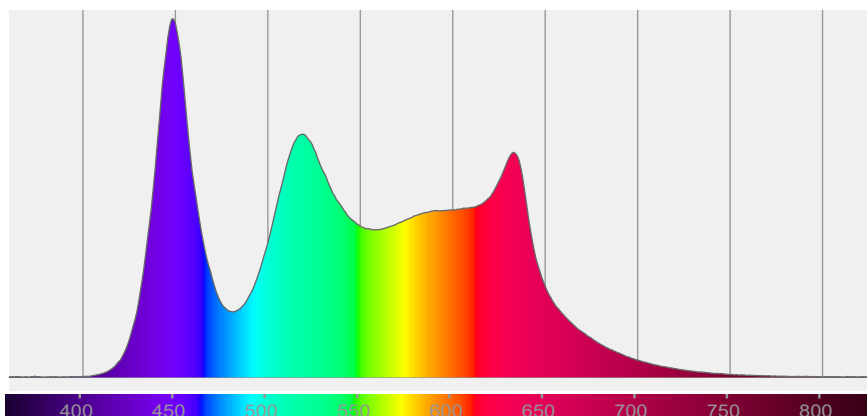


Beam angle 50%: 30,4°

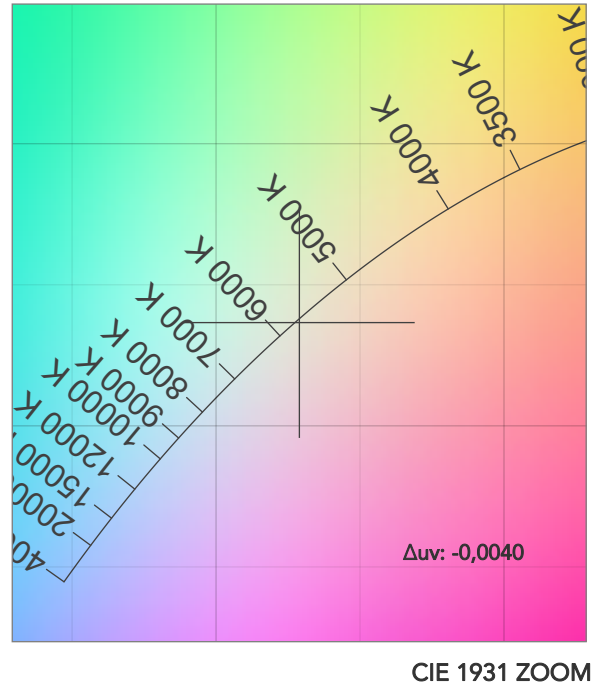
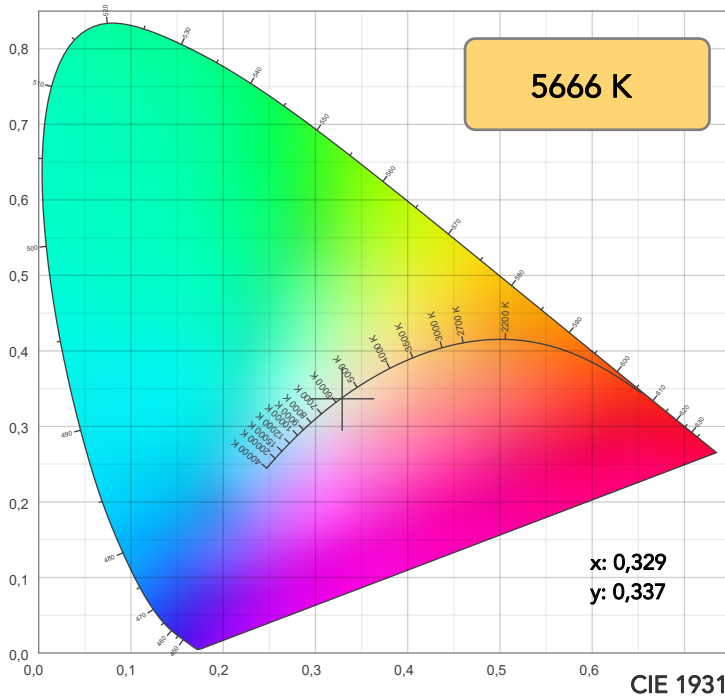
Field angle 10%: 39,5°

Cut off angle 2.5%: 42,1°

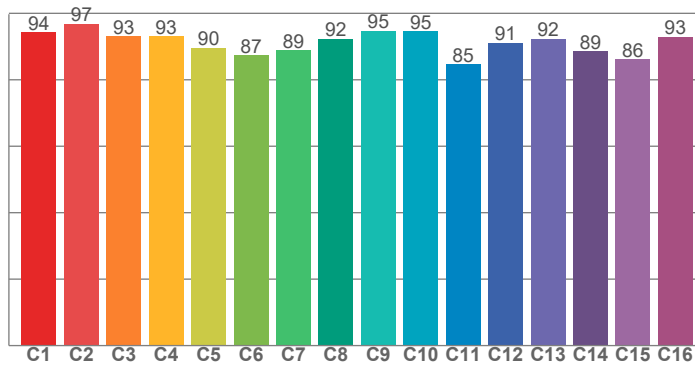
Spectra



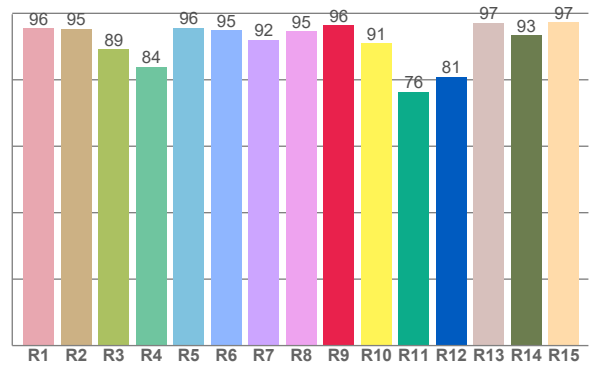
COLOR DETAILS



TM30: 91,1



CRI: 92,7 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95,5	95,4	89,2	83,9	95,7	95,0	92,0	94,6	96,4	91,0	76,4	80,9	97,2	93,3	97,4

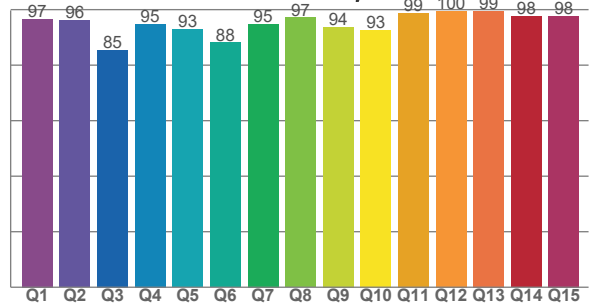
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,3	96,9	93,1	93,1	89,7	87,4	88,8	92,3	94,7	94,6	84,6	91,1	92,3	88,5	86,2	92,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,5	96,2	85,4	94,8	92,9	88,2	94,9	97,1	93,7	92,6	98,9	99,5	99,5	97,6	97,8

CQS: 93,7



COLOR PARAMETERS

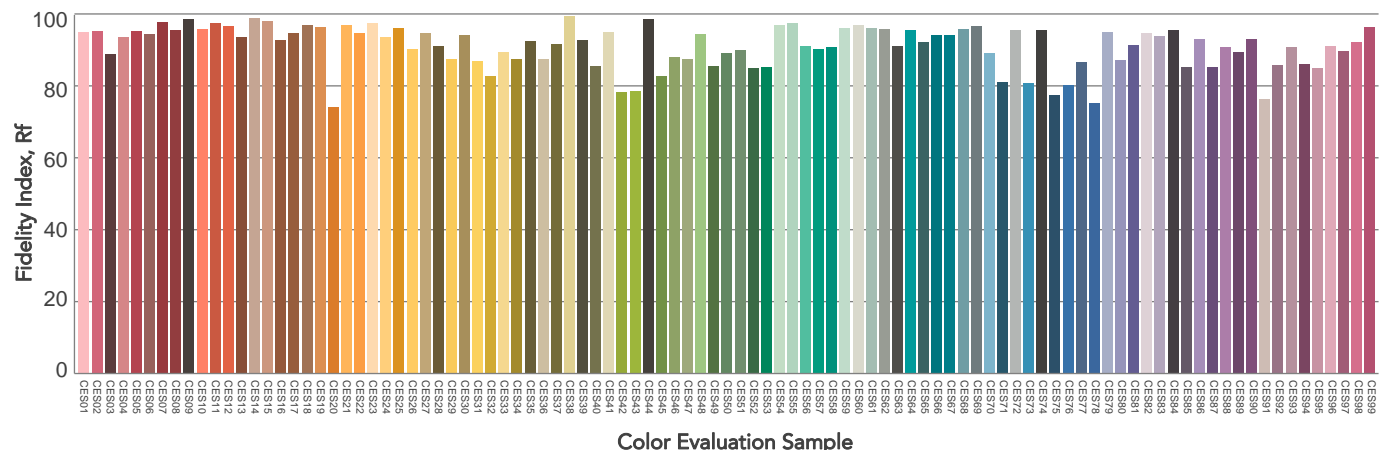
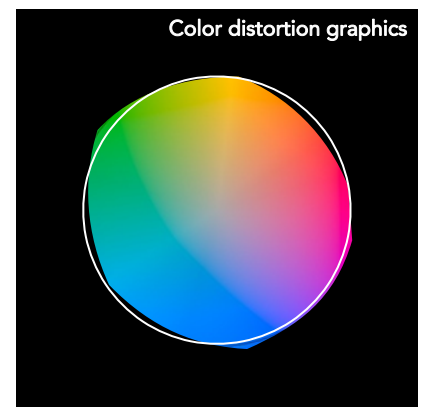
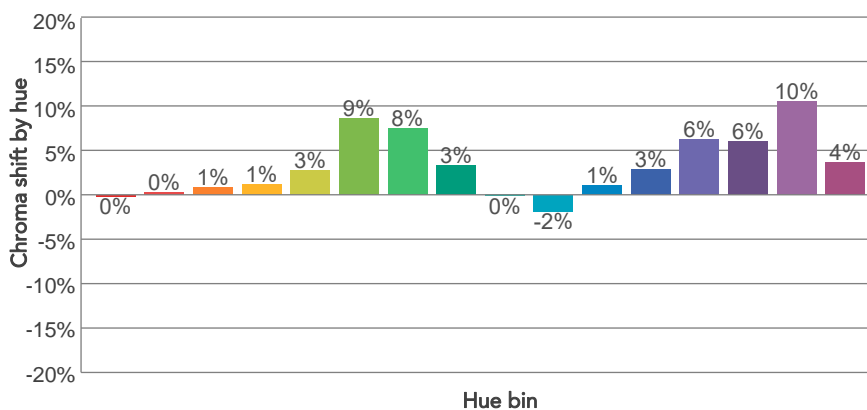
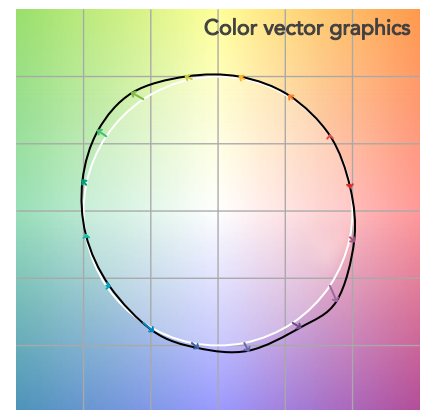
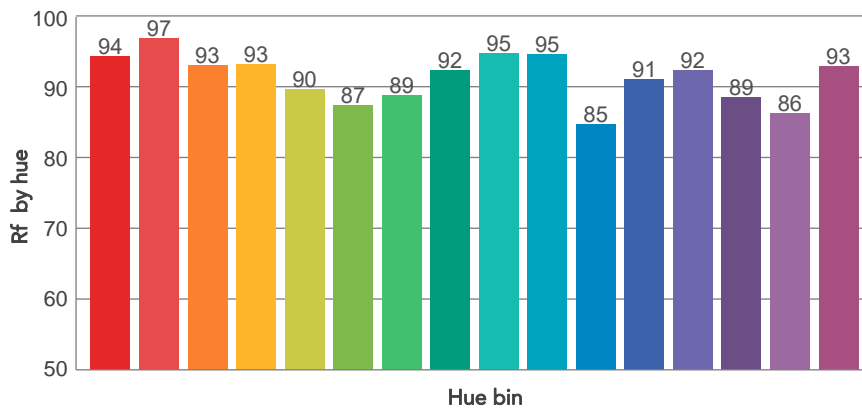
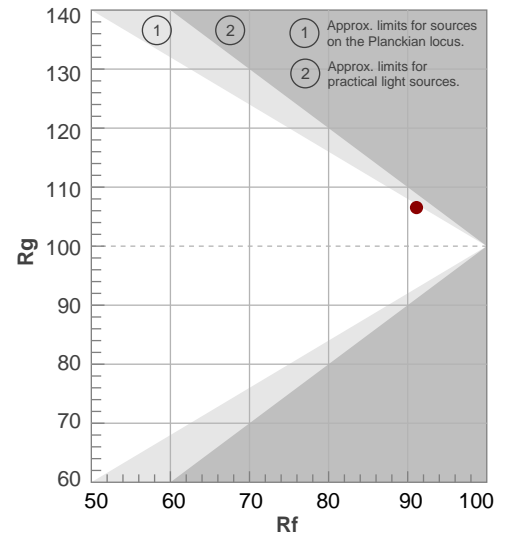
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5666 K	92,7	96,4	91,1	106,5	93,7	88	0,329	0,337	-0,0040

TM30 DETAILS

Rf 91,1
Fidelity index Rf

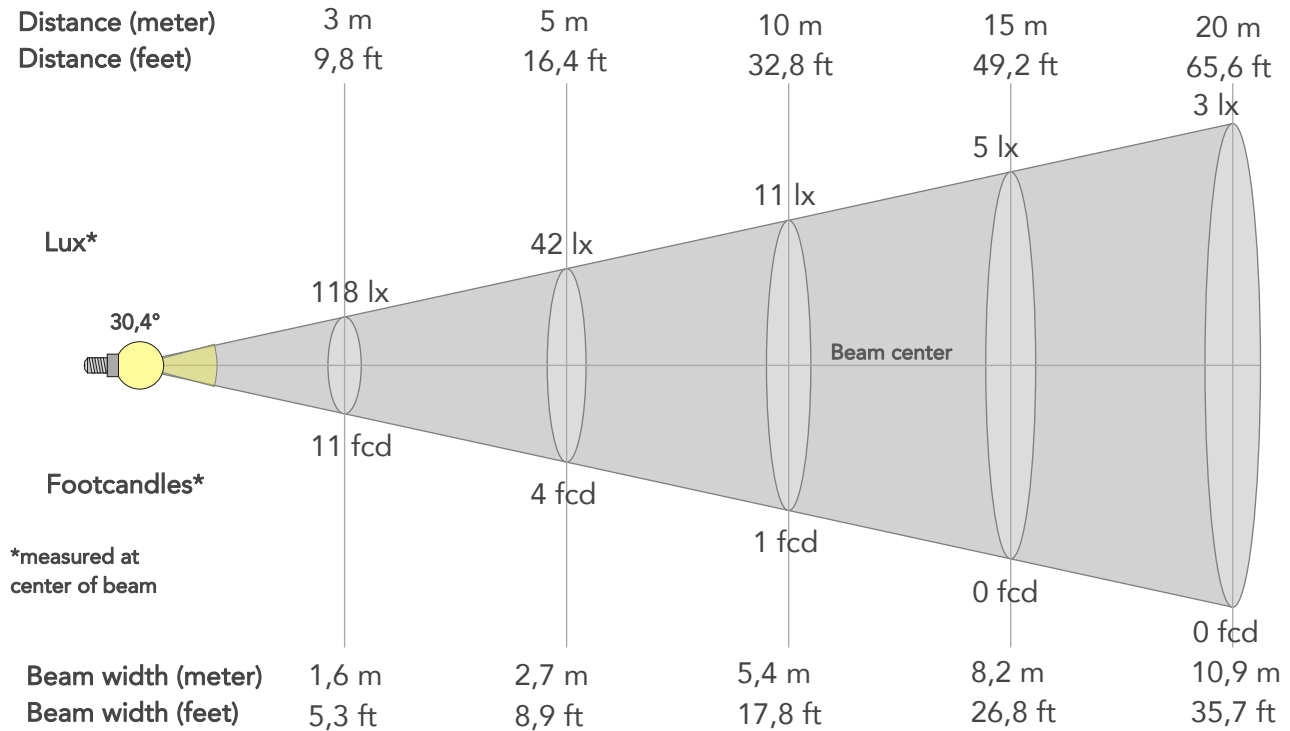
Rg 106,5
Gammut index

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



BEAM DETAILS

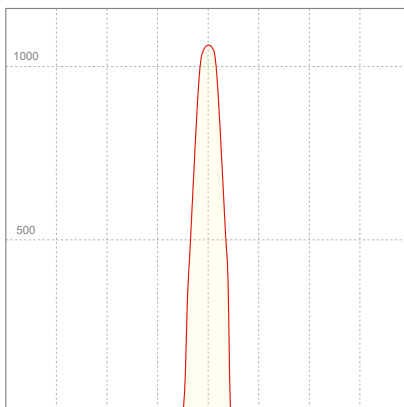
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
30,4°	39,5°	42,1°	99,1%	98,7%



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	1061lx	265lx	118lx	66lx	42lx	19lx	11lx	5lx	3lx	2lx	1lx	1lx	0lx
Footcand.	99fcd	25fcd	11fcd	6fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1,1m	1,6m	2,2m	2,7m	4,1m	5,4m	8,2m	10,9m	13,6m	16,3m	21,8m	27,2m
Beam wid.	1,8ft	3,6ft	5,3ft	7,1ft	8,9ft	13,4ft	17,8ft	26,8ft	35,7ft	44,6ft	53,5ft	71,4ft	89,2ft

LINEAR DISTRIBUTION DIAGRAM

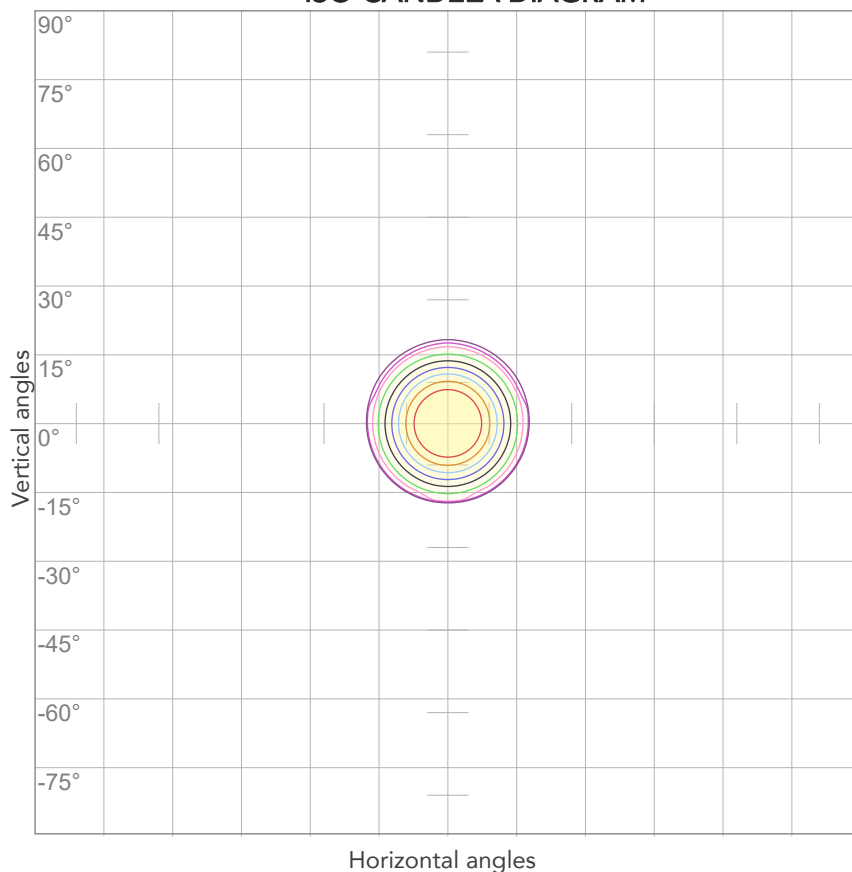


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,127A	27,0W	0,93	9lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



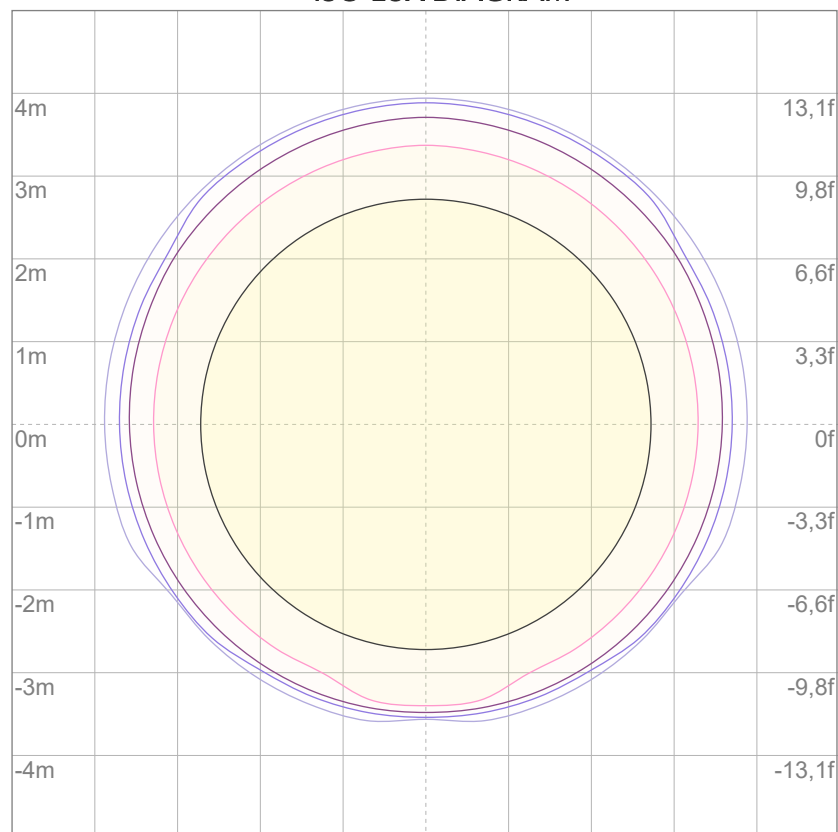
10%	106 cd
20%	212 cd
30%	318 cd
40%	425 cd
50%	531 cd
60%	637 cd
70%	743 cd
80%	849 cd

Conditions:

Number of c-planes: 2

Candela at center: 1061 cd

ISO LUX DIAGRAM



3%	0,318 lx
5%	0,531 lx
10%	1,06 lx
30%	3,18 lx
50%	5,31 lx

Conditions:

Number of c-planes: 2

Lux at center: 10,6 lx

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



Total lumen output:

251 lm

Peak candela output:

4110 cd

Light quality:

CRI: 92,5

Color temperature:

5679 K

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 2040 Min Zoom

Target:

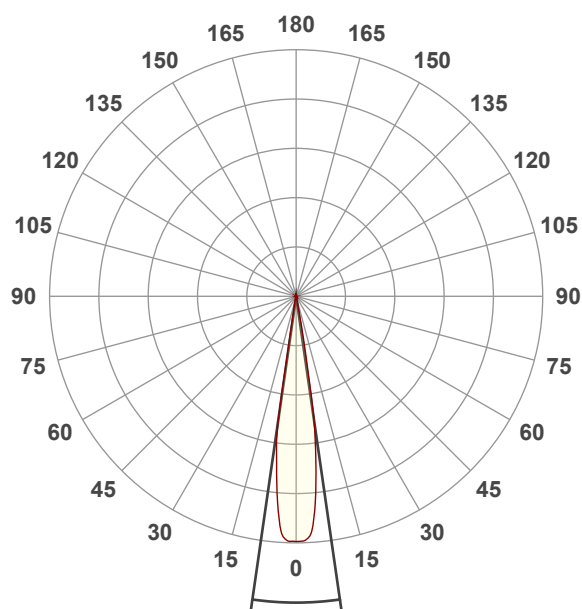
5600K

Operator:

Giacomo Matteo

Date and time:

14/06/2024 09:47:00

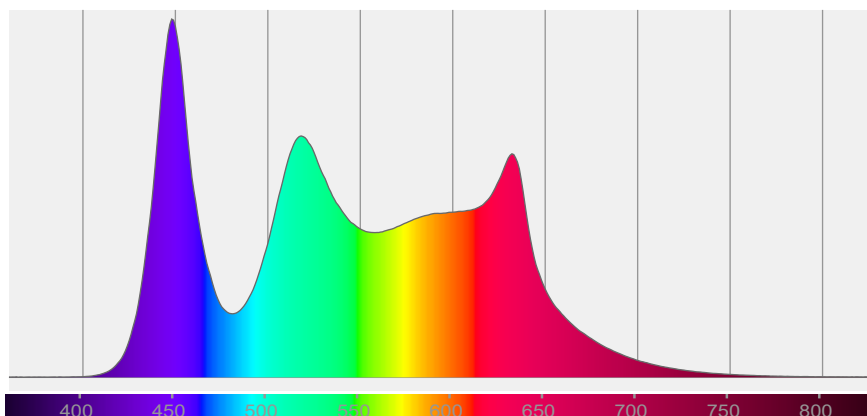


Beam angle 50%: 16,4°

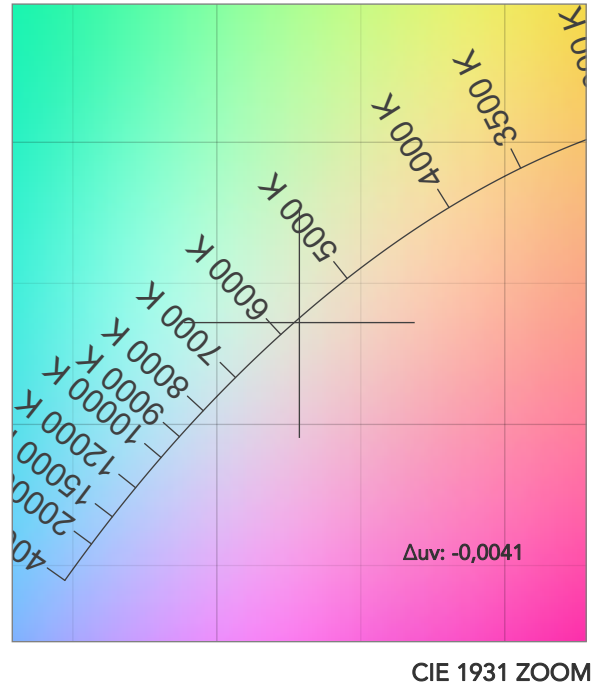
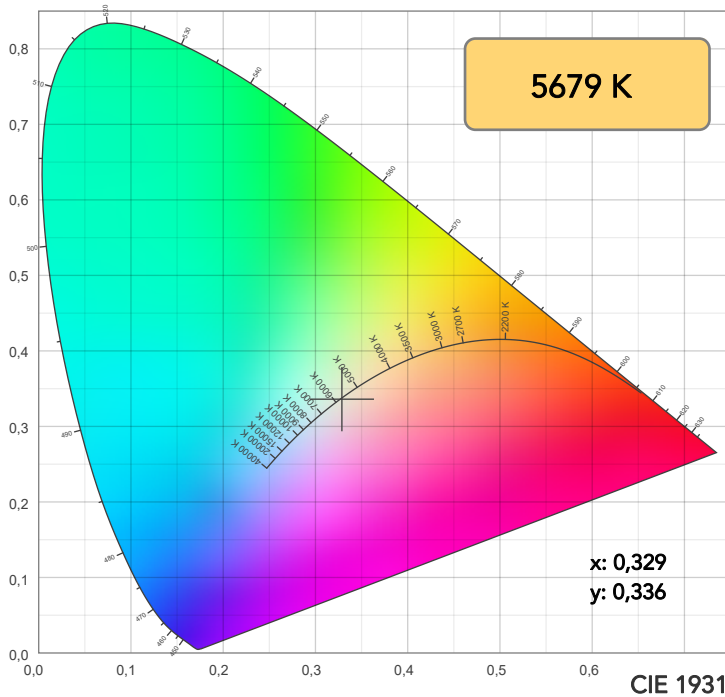
Field angle 10%: 20°

Cut off angle 2.5%: 21,7°

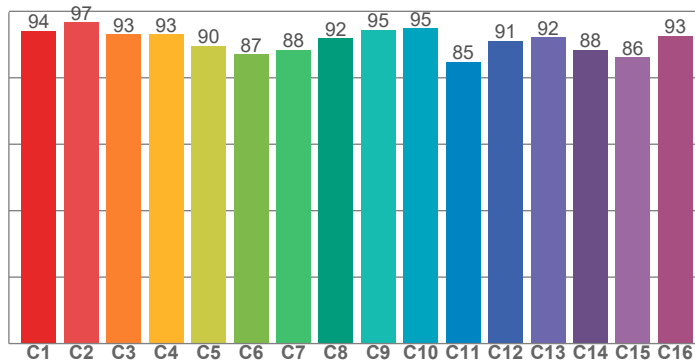
Spectra



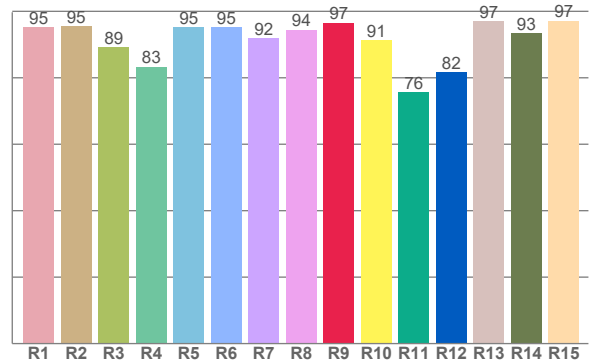
COLOR DETAILS



TM30: 91,0



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
95,2	95,4	89,2	83,3	95,2	95,2	91,8	94,4	96,6	91,3	75,6	81,6	96,9	93,3	97,1

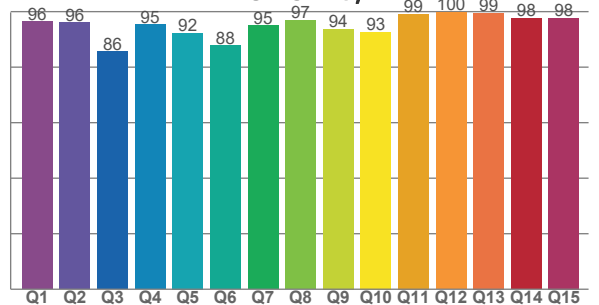
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,2	96,7	93,1	93,1	89,6	87,0	88,3	91,8	94,5	94,8	84,8	91,1	92,2	88,3	86,2	92,7

CQS Q values

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

CQS: 93,7



COLOR PARAMETERS

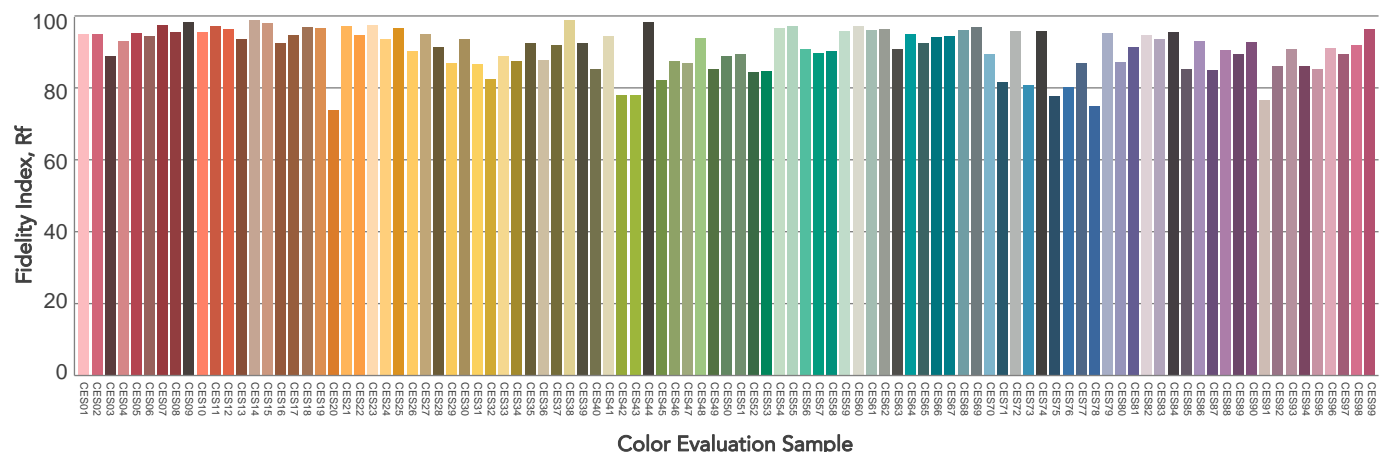
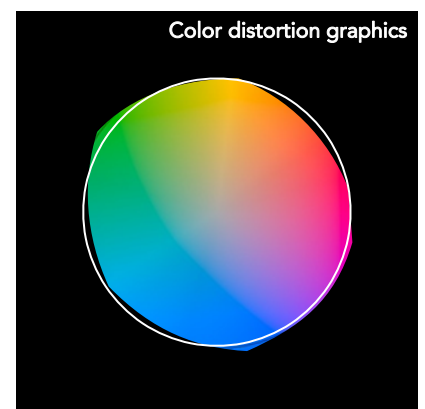
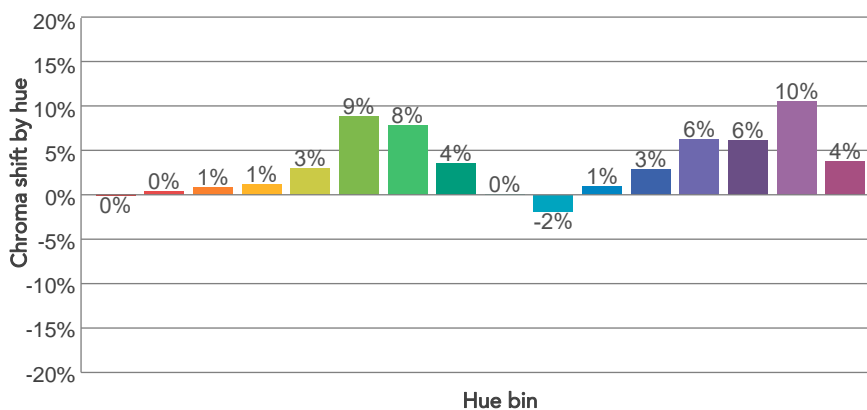
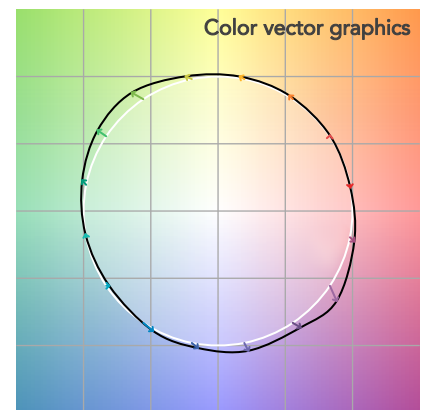
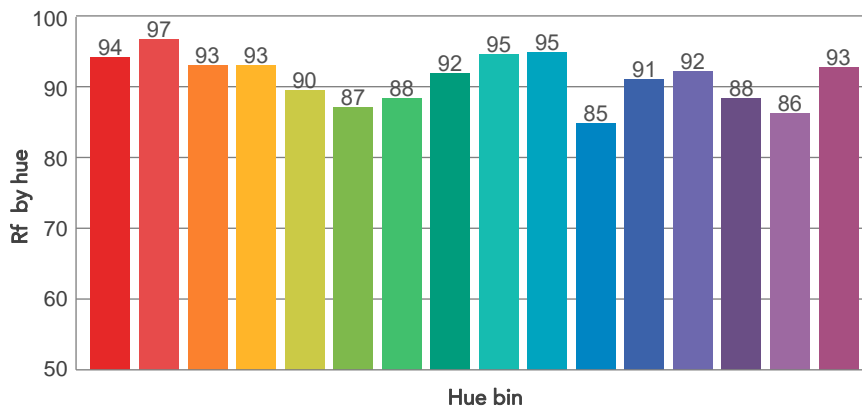
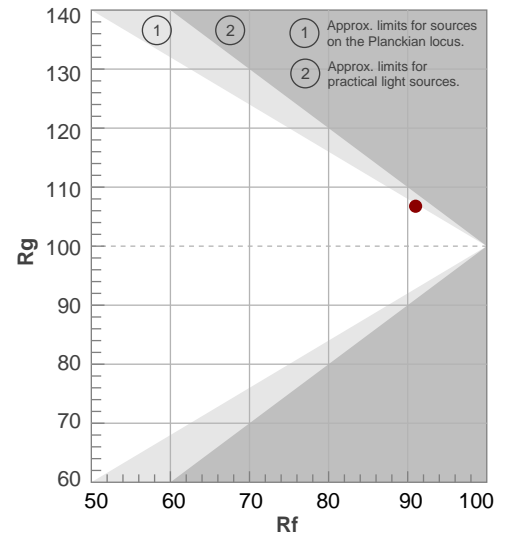
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5679 K	92,5	96,6	91,0	106,8	93,7	87	0,329	0,336	-0,0041

TM30 DETAILS

Rf 91,0
Fidelity index Rf

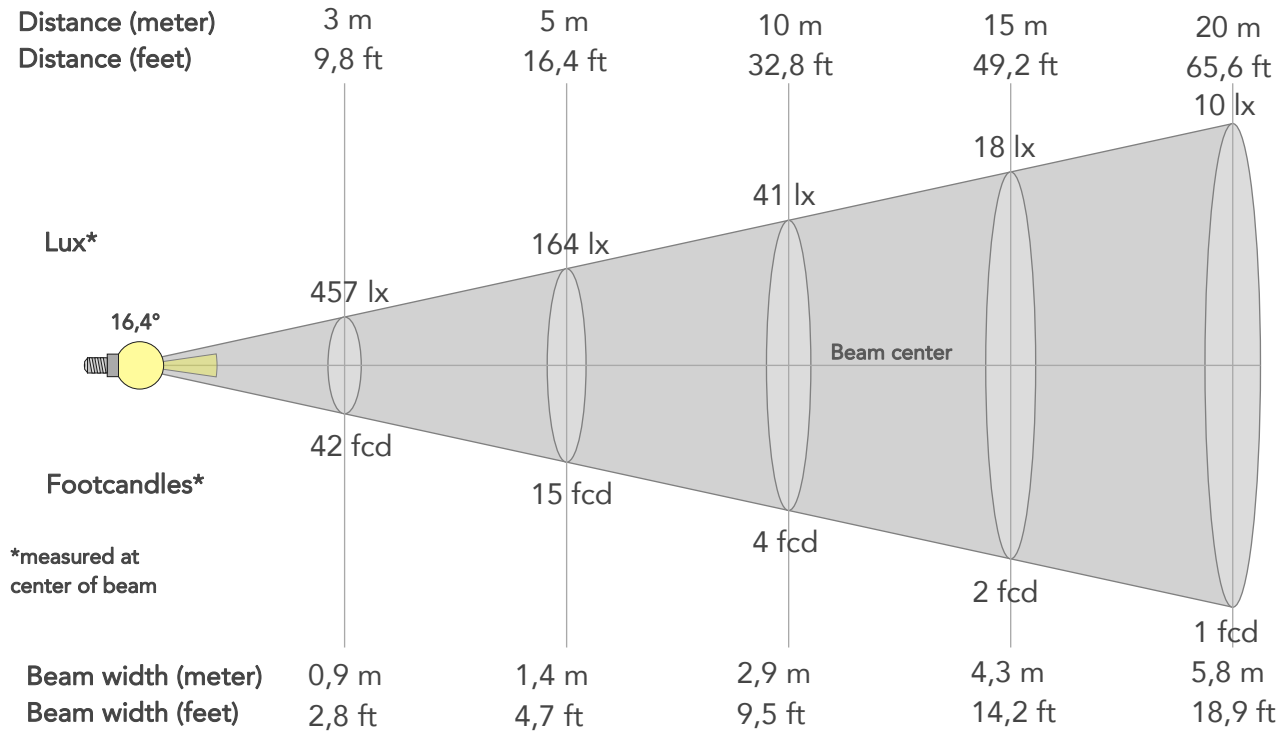
Rg 106,8
Gammut index

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	88	8%	0%
8	92	4%	-3%
9	95	0%	-2%
10	95	-2%	1%
11	85	1%	9%
12	91	3%	5%
13	92	6%	2%
14	88	6%	3%
15	86	10%	-7%
16	93	4%	-2%



BEAM DETAILS

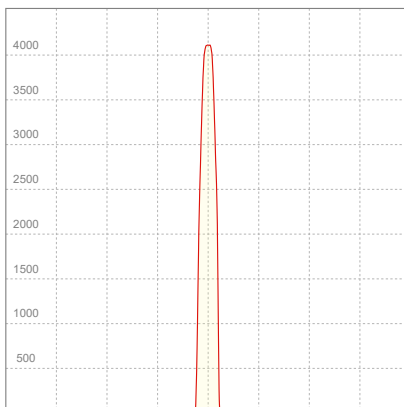
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16,4°	20°	21,7°	99,2%	98,8%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	4109lx	1027lx	457lx	257lx	164lx	73lx	41lx	18lx	10lx	7lx	5lx	3lx	2lx
Footcand.	382fcd	95fcd	42fcd	24fcd	15fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,4m	2,2m	2,9m	4,3m	5,8m	7,2m	8,7m	11,5m	14,4m
Beam wid.	1ft	1,9ft	2,8ft	3,8ft	4,7ft	7,1ft	9,5ft	14,2ft	18,9ft	23,7ft	28,4ft	37,9ft	47,3ft

LINEAR DISTRIBUTION DIAGRAM

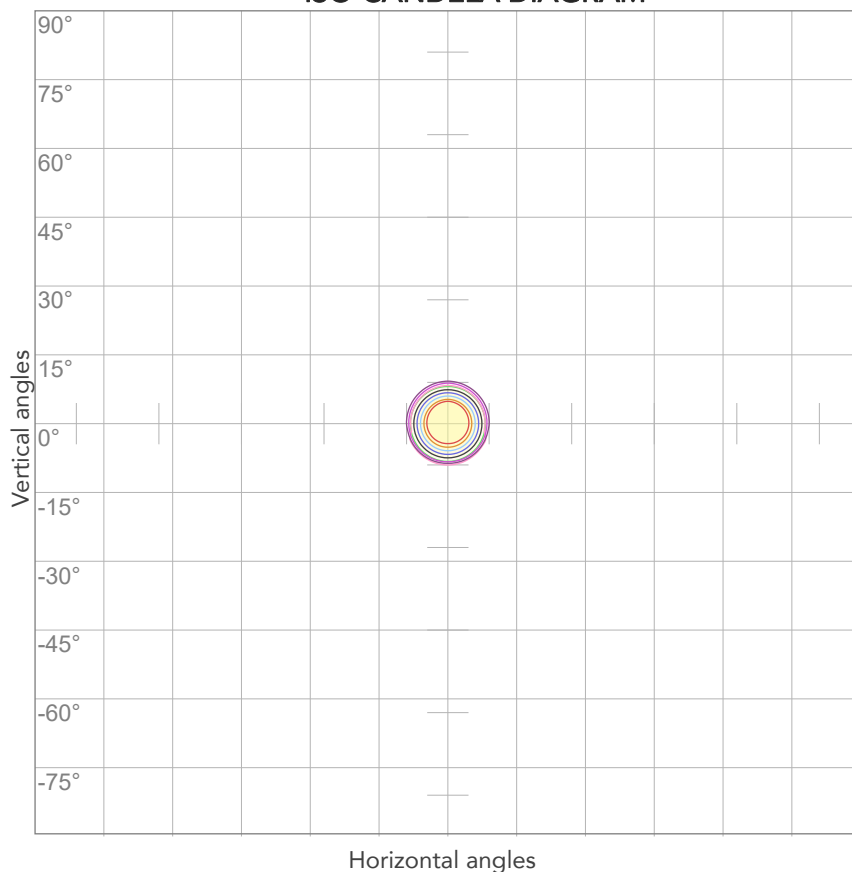


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,129A	27,3W	0,93	9lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



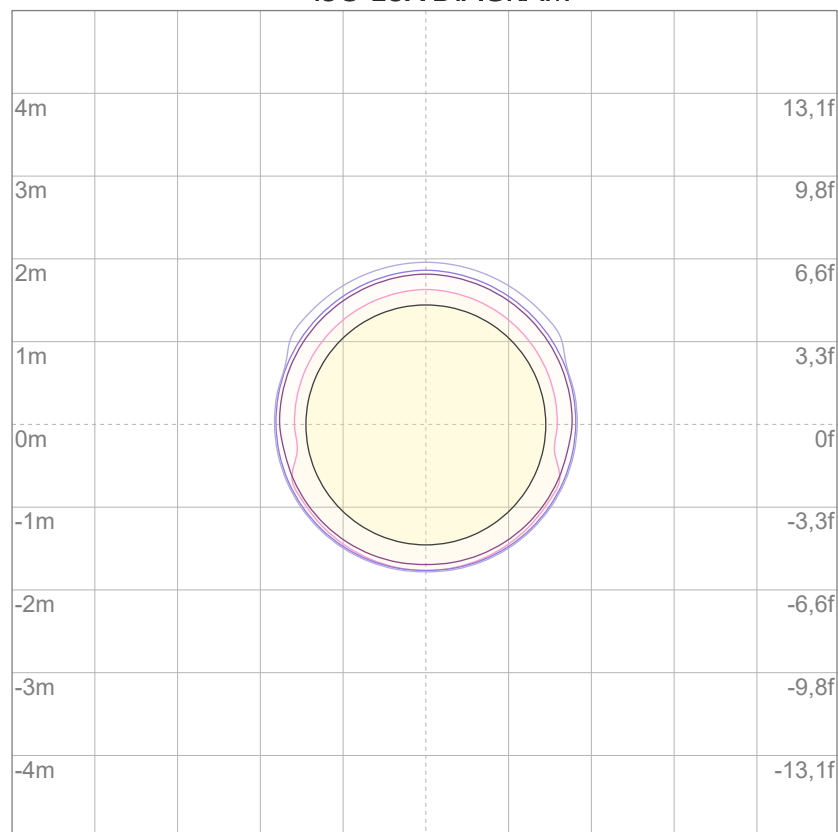
10%	411 cd
20%	822 cd
30%	1233 cd
40%	1644 cd
50%	2055 cd
60%	2466 cd
70%	2877 cd
80%	3287 cd

Conditions:

Number of c-planes: 2

Candela at center: 4109 cd

ISO LUX DIAGRAM



3%	1,23 lx
5%	2,05 lx
10%	4,11 lx
30%	12,3 lx
50%	20,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 41,1 lx

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



Total lumen output:

247 lm

Peak candela output:

1095 cd

Light quality:

CRI: 92,5

Color temperature:

6016 K

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 2040 Max Zoom

Target:

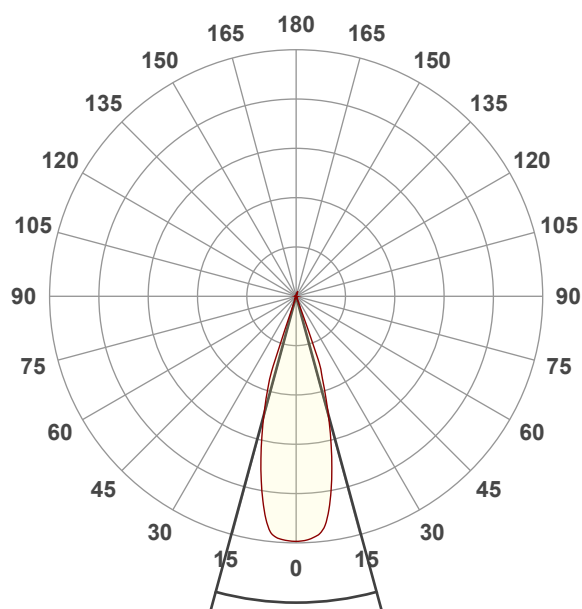
6000K

Operator:

Giacomo Matteo

Date and time:

14/06/2024 10:04:39

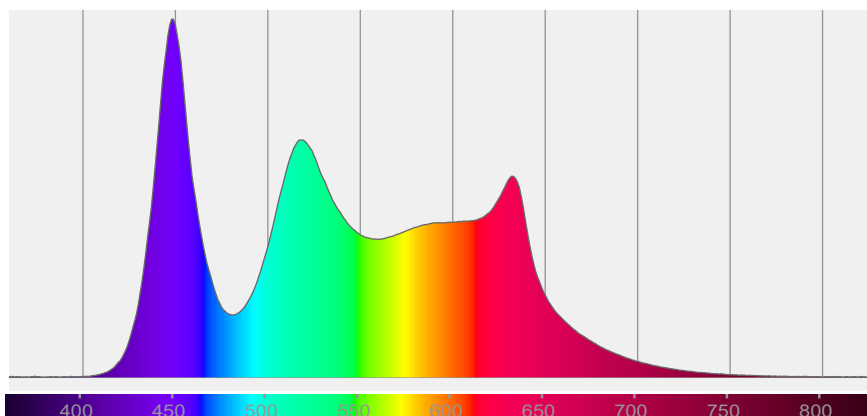


Beam angle 50%: 30,4°

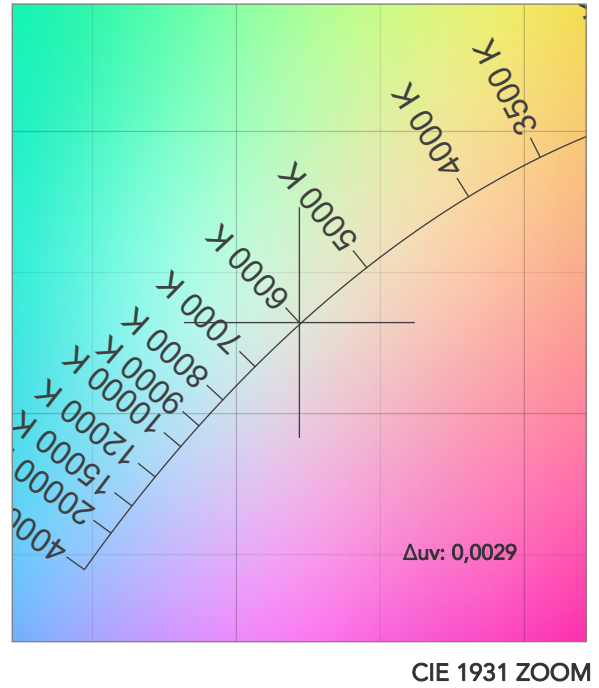
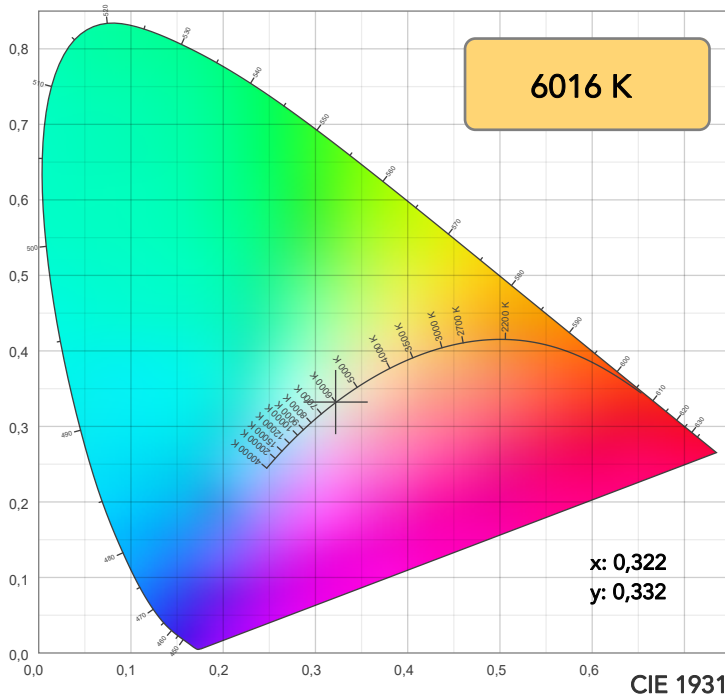
Field angle 10%: 39,6°

Cut off angle 2.5%: 40,8°

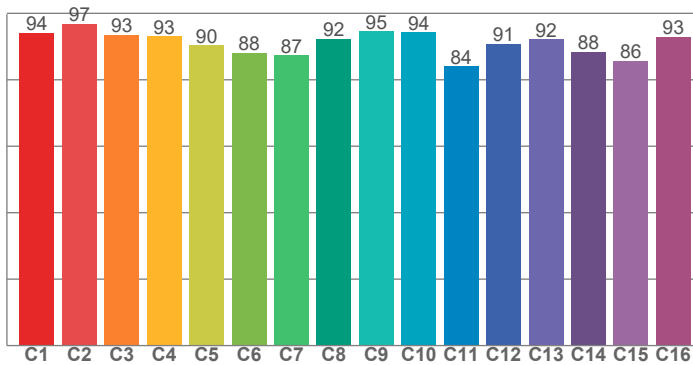
Spectra



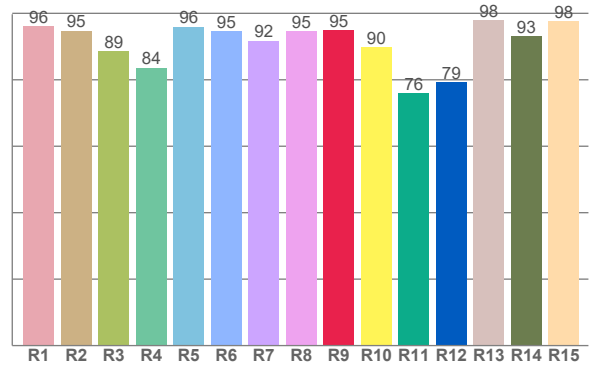
COLOR DETAILS



TM30: 91,0



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
96,1	94,8	88,7	83,6	96,0	94,7	91,8	94,5	94,8	89,8	75,9	79,2	97,9	93,2	97,7

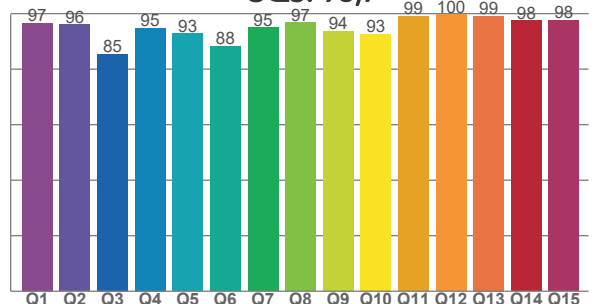
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,1	96,9	93,4	93,1	90,3	88,2	87,3	92,4	94,5	94,3	84,0	90,9	92,2	88,4	85,7	92,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,6	96,1	85,5	94,8	92,8	88,2	95,0	96,8	93,7	92,6	99,0	99,7	99,2	97,6	97,6

CQS: 93,7



COLOR PARAMETERS

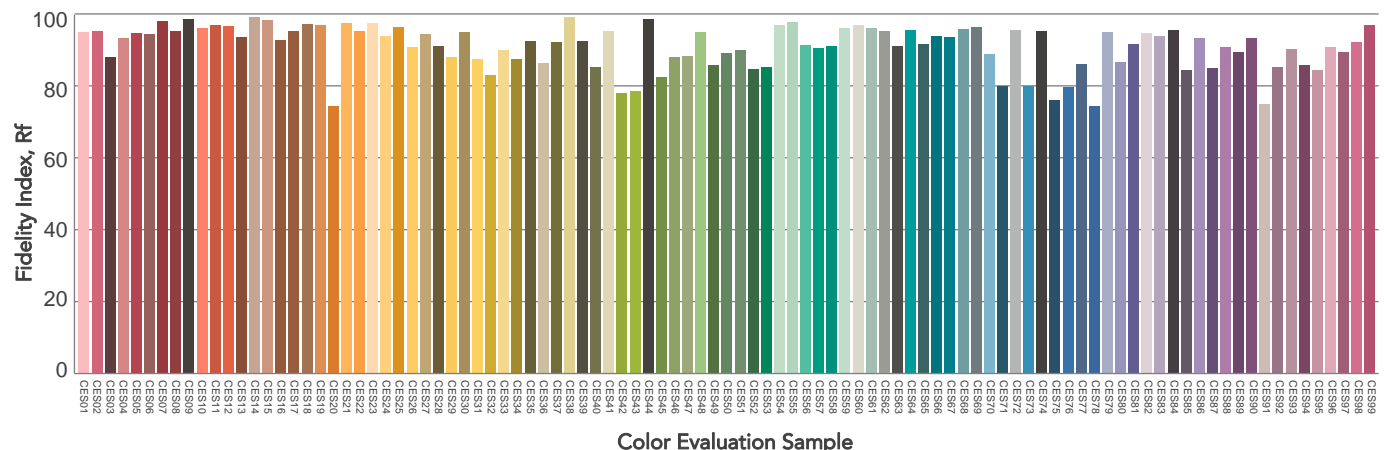
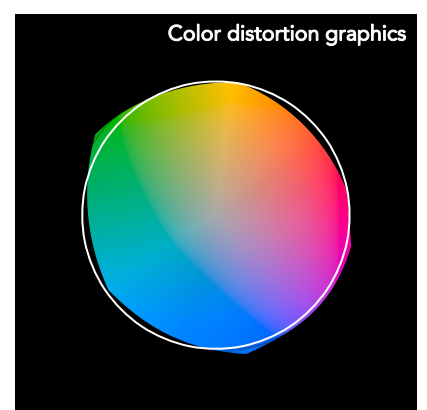
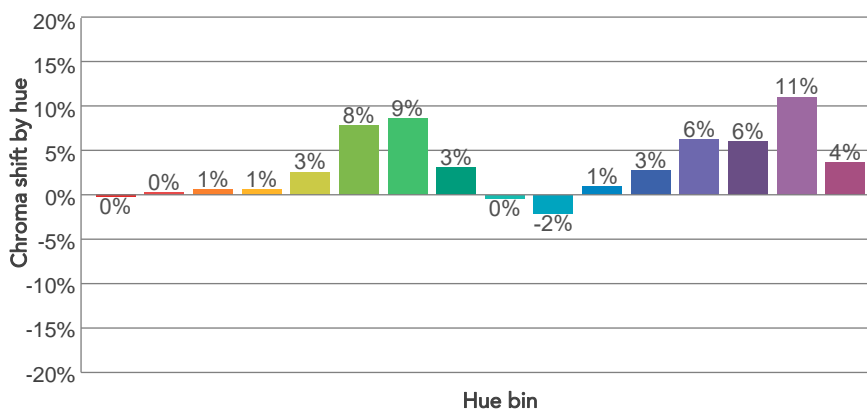
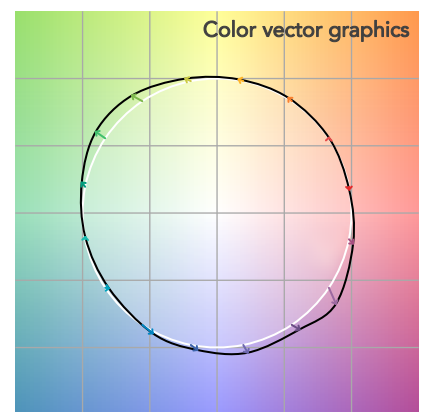
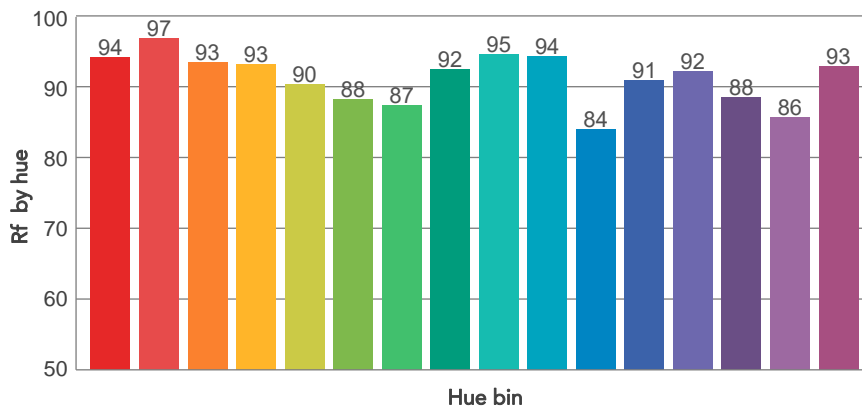
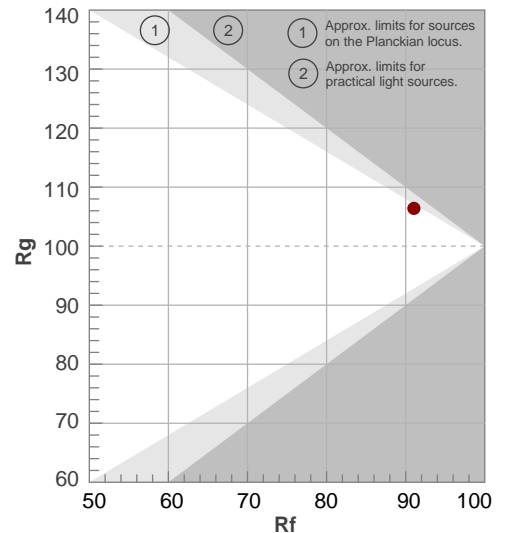
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6016 K	92,5	94,8	91,0	106,4	93,7	87	0,322	0,332	0,0029

TM30 DETAILS

Rf 91,0
Fidelity index Rf

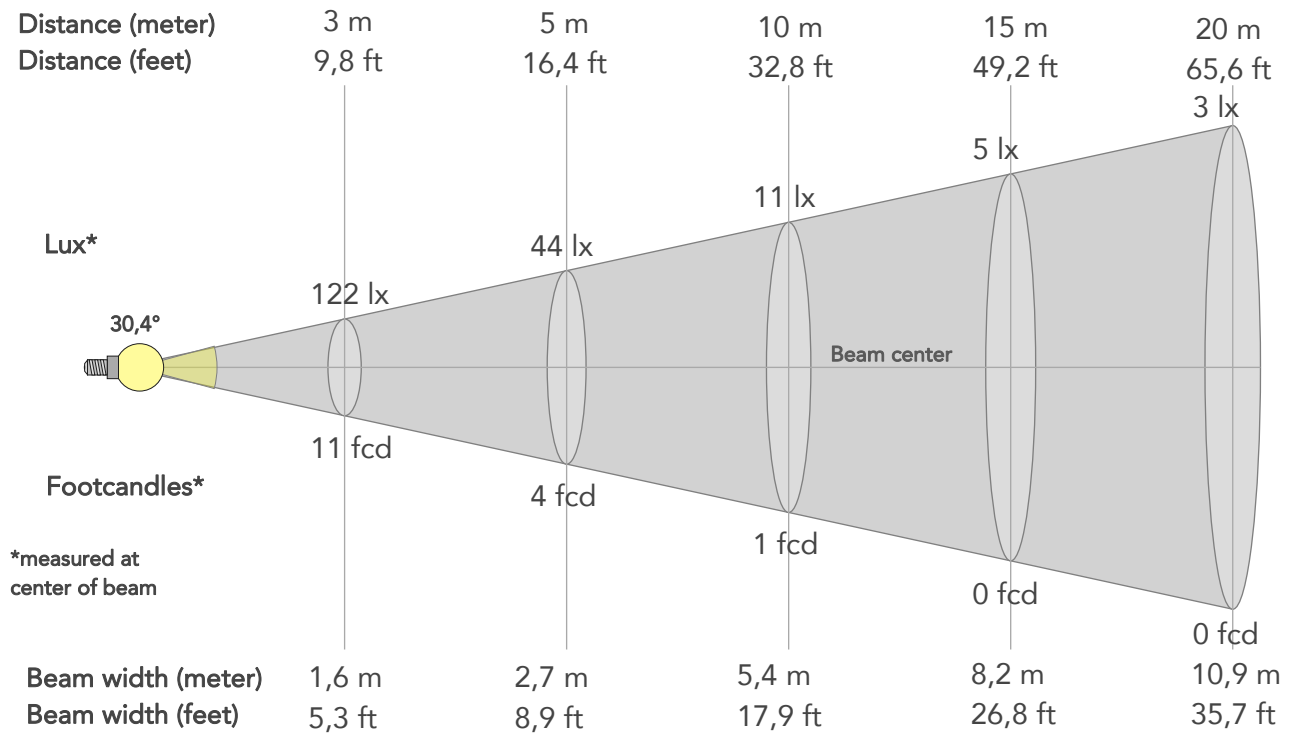
Rg 106,4
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	0%	-2%
2	97	0%	0%
3	93	1%	3%
4	93	1%	4%
5	90	3%	4%
6	88	8%	4%
7	87	9%	0%
8	92	3%	-3%
9	95	0%	-2%
10	94	-2%	2%
11	84	1%	10%
12	91	3%	5%
13	92	6%	2%
14	88	6%	3%
15	86	11%	-7%
16	93	4%	-3%



BEAM DETAILS

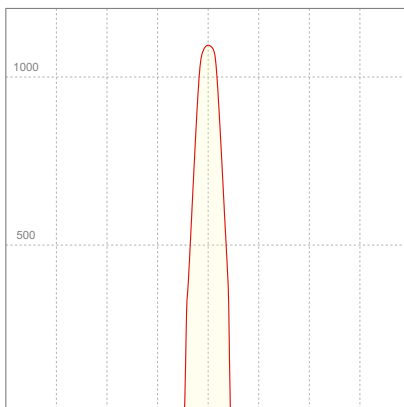
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
30,4°	39,6°	40,8°	99,1%	98,8%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	1094lx	274lx	122lx	68lx	44lx	19lx	11lx	5lx	3lx	2lx	1lx	1lx	0lx
Footcand.	102fcd	25fcd	11fcd	6fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1,1m	1,6m	2,2m	2,7m	4,1m	5,4m	8,2m	10,9m	13,6m	16,3m	21,8m	27,2m
Beam wid.	1,8ft	3,6ft	5,3ft	7,1ft	8,9ft	13,4ft	17,9ft	26,8ft	35,7ft	44,6ft	53,6ft	71,4ft	89,3ft

LINEAR DISTRIBUTION DIAGRAM

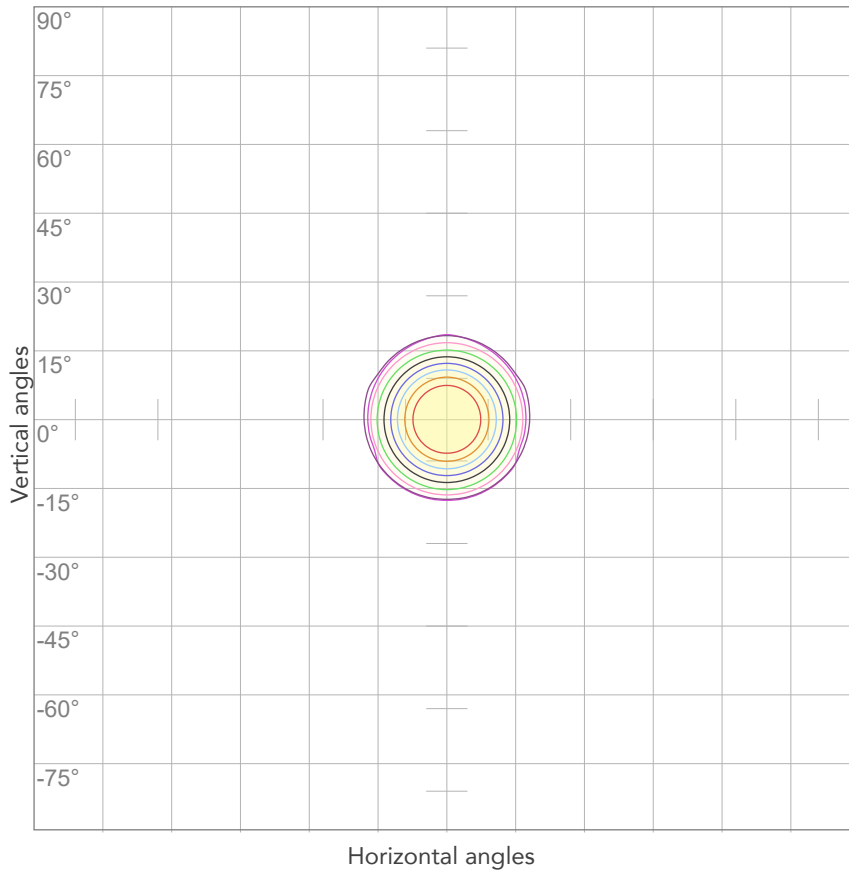


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,130A	27,7W	0,93	9lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



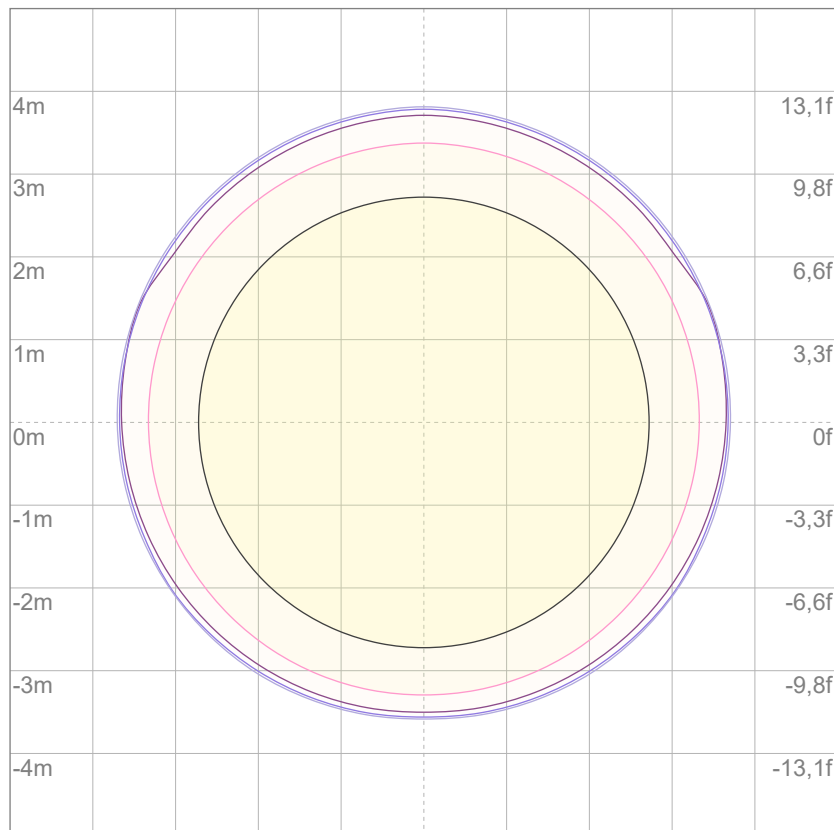
10%	109 cd
20%	219 cd
30%	328 cd
40%	438 cd
50%	547 cd
60%	657 cd
70%	766 cd
80%	875 cd

Conditions:

Number of c-planes: 2

Candela at center: 1094 cd

ISO LUX DIAGRAM



3%	0,328 lx
5%	0,547 lx
10%	1,09 lx
30%	3,28 lx
50%	5,47 lx

Conditions:

Number of c-planes: 2

Lux at center: 10,9 lx

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



Total lumen output:

253 lm

Peak candela output:

4152 cd

Light quality:

CRI: 92,5

Color temperature:

6032 K

PRODUCT NAME:

ECLDISPLAY FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 2040 Min Zoom

Target:

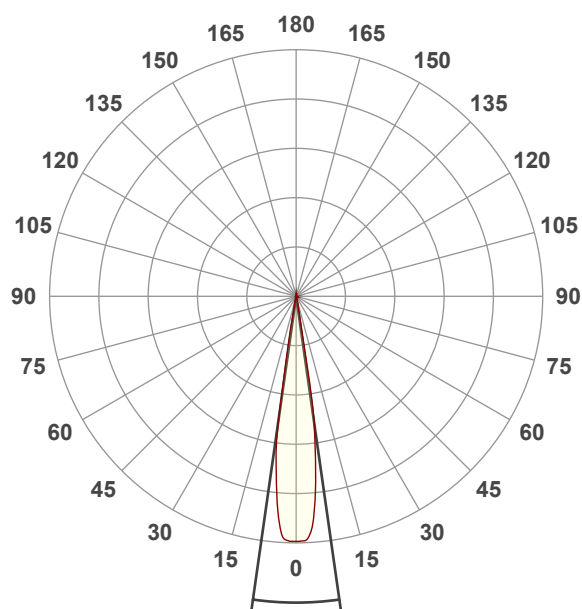
6000K

Operator:

Giacomo Matteo

Date and time:

14/06/2024 09:49:53

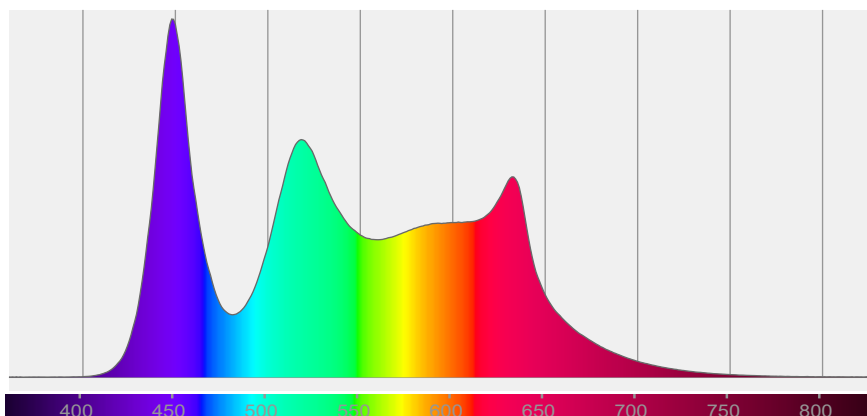


Beam angle 50%: 16,2°

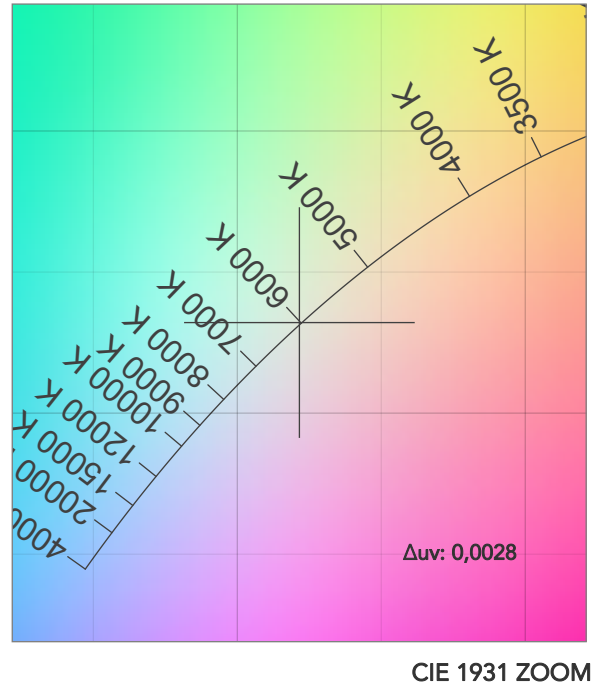
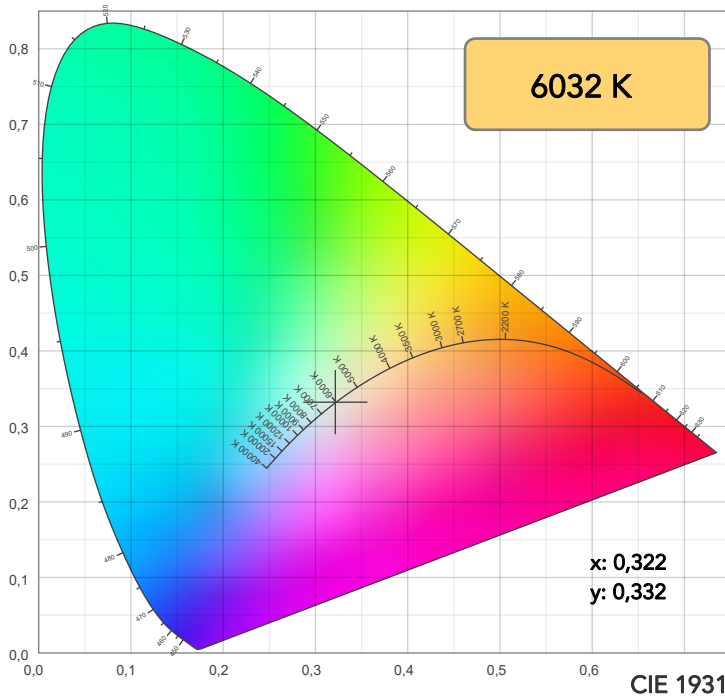
Field angle 10%: 20,1°

Cut off angle 2.5%: 21,8°

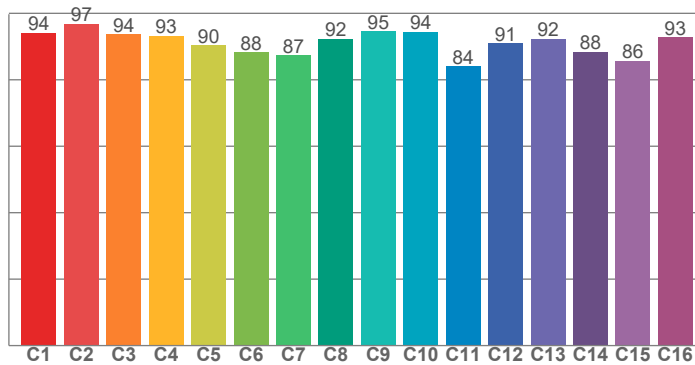
Spectra



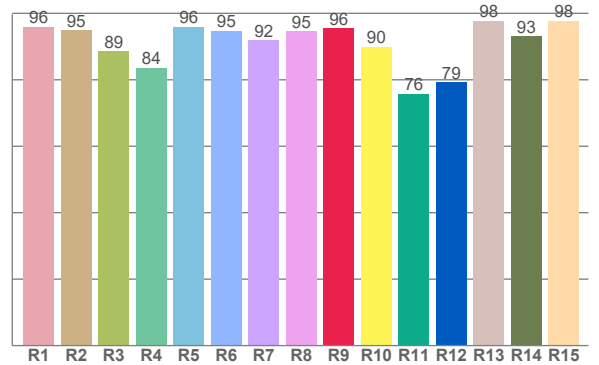
COLOR DETAILS



TM30: 91,1



CRI: 92,5 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
96,0	94,9	88,7	83,6	95,9	94,8	91,8	94,5	95,5	89,9	75,8	79,2	97,8	93,2	97,7

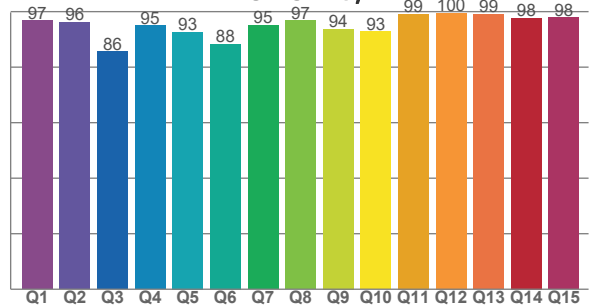
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,2	96,8	93,6	93,2	90,4	88,2	87,4	92,4	94,5	94,4	84,1	90,9	92,2	88,5	85,7	92,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,7	96,1	85,6	94,9	92,7	88,3	95,1	96,7	93,7	92,8	99,1	99,5	99,0	97,7	97,8

CQS: 93,7



COLOR PARAMETERS

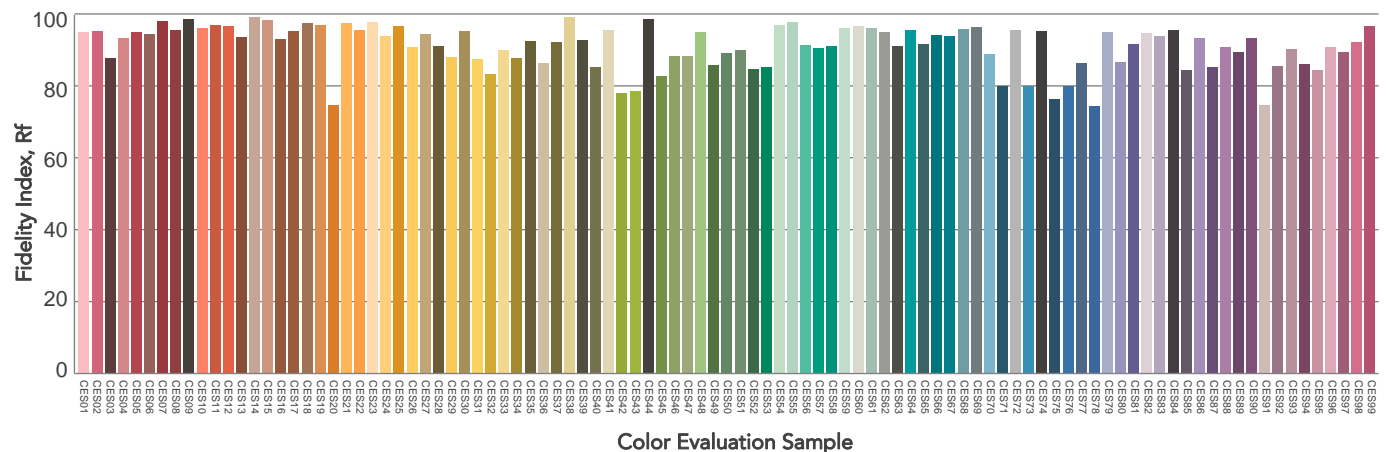
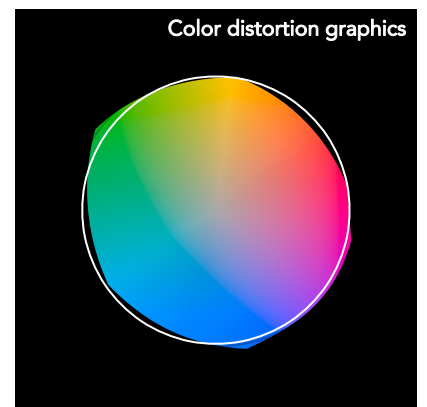
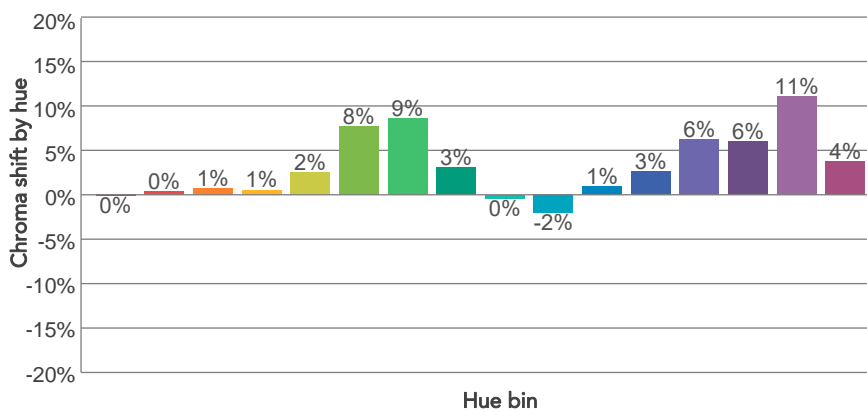
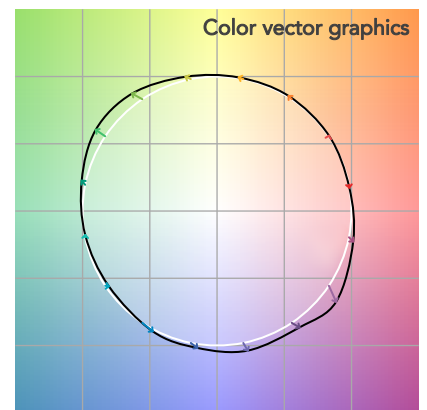
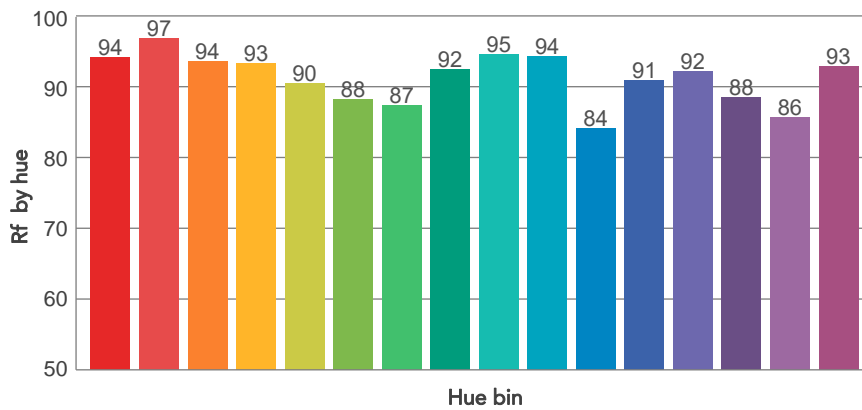
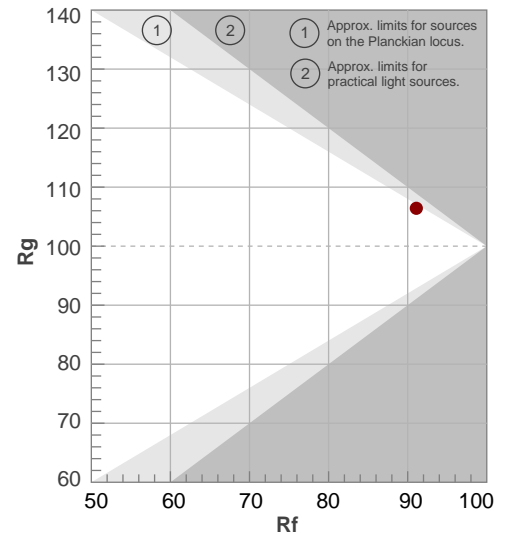
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6032 K	92,5	95,5	91,1	106,4	93,7	87	0,322	0,332	0,0028

TM30 DETAILS

Rf 91,1
Fidelity index Rf

Rg 106,4
Gammut index

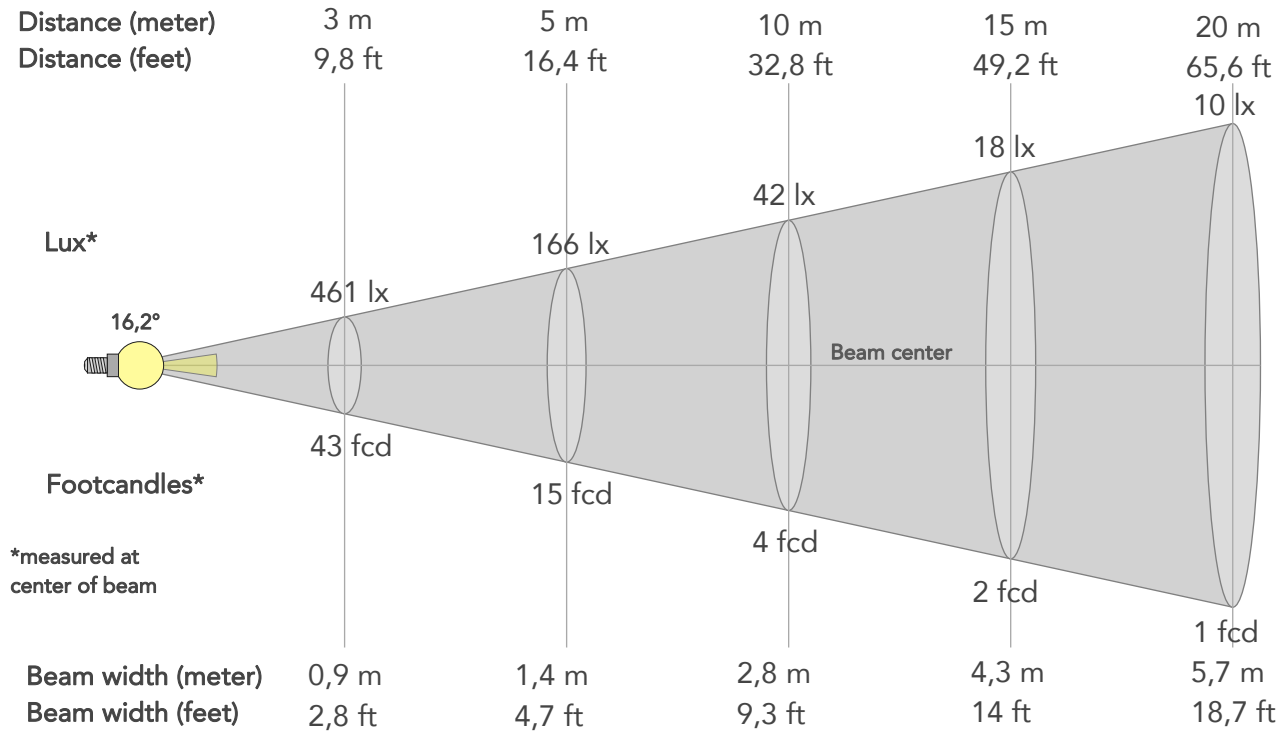
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	0%	-2%
2	97	0%	0%
3	94	1%	3%
4	93	1%	4%
5	90	2%	4%
6	88	8%	4%
7	87	9%	0%
8	92	3%	-3%
9	95	0%	-2%
10	94	-2%	2%
11	84	1%	10%
12	91	3%	5%
13	92	6%	2%
14	88	6%	3%
15	86	11%	-7%
16	93	4%	-2%



BEAM DETAILS



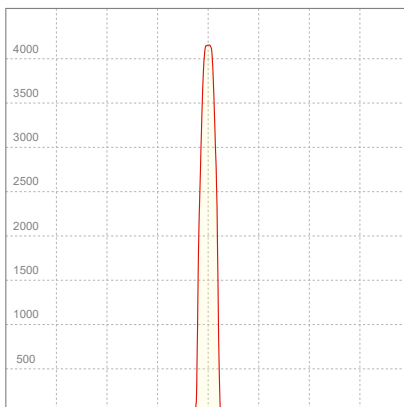
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16,2°	20,1°	21,8°	99,2%	98,9%



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	4151lx	1038lx	461lx	259lx	166lx	74lx	42lx	18lx	10lx	7lx	5lx	3lx	2lx
Footcand.	386fcd	96fcd	43fcd	24fcd	15fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,9m	1,1m	1,4m	2,1m	2,8m	4,3m	5,7m	7,1m	8,5m	11,4m	14,2m
Beam wid.	0,9ft	1,9ft	2,8ft	3,7ft	4,7ft	7ft	9,3ft	14ft	18,7ft	23,4ft	28ft	37,4ft	46,7ft

LINEAR DISTRIBUTION DIAGRAM

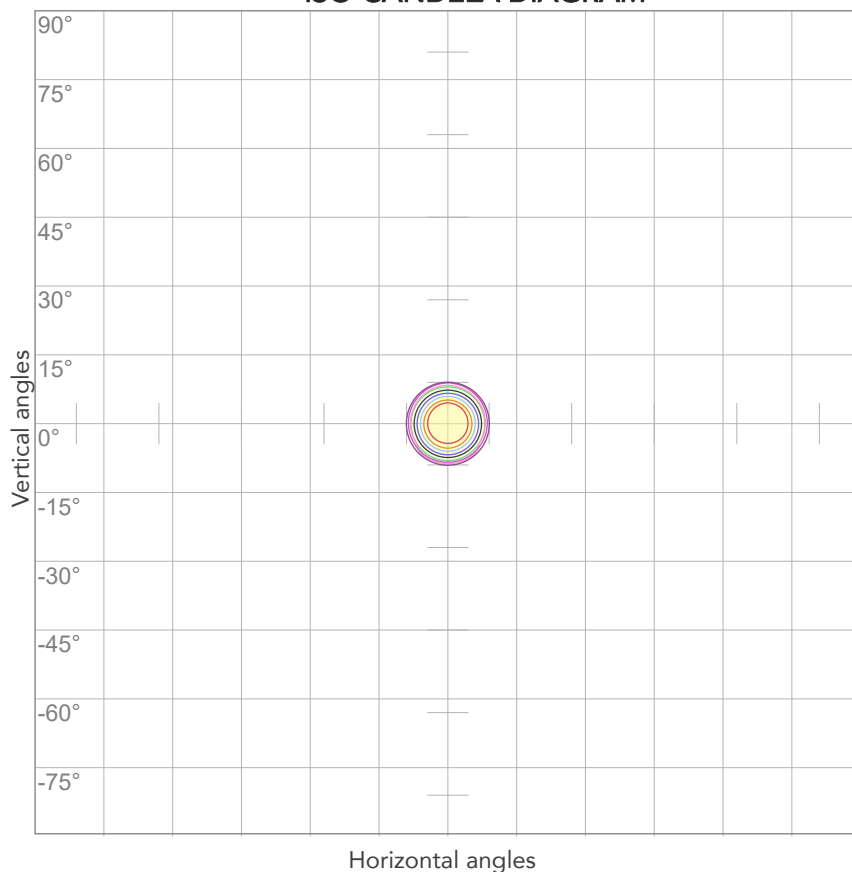


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,130A	27,7W	0,93	9lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



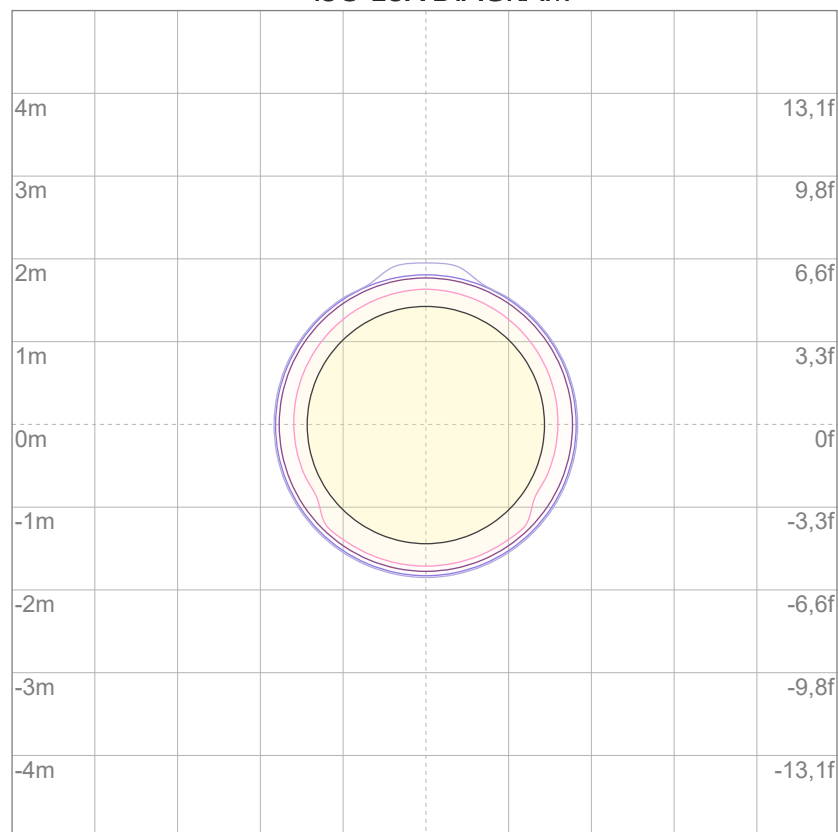
10%	415 cd
20%	830 cd
30%	1245 cd
40%	1661 cd
50%	2076 cd
60%	2491 cd
70%	2906 cd
80%	3321 cd

Conditions:

Number of c-planes: 2

Candela at center: 4151 cd

ISO LUX DIAGRAM



3%	1,25 lx
5%	2,08 lx
10%	4,15 lx
30%	12,5 lx
50%	20,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 41,5 lx

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