

Photometric Test Report



ECLDISPLAYCASVW

ZOOMABLE WASH LENS 25-50°

35W variable white LED gallery light,
from 2700K to 5600K

(CASAMBI control on-board)

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TESTING PROCESS

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

Prolights measurement instrument

Prolights measurement instrument is a complete measurement system for any light source. It's equipped with two-axis goniometer, that enables to measure the full 3D distribution field of the light source. This instrument measures the light intensity, the beam angle and the most significative colors parameters, like color temperature, spectral distribution, CRI, CQS, TM-30 with a very high accuracy rate.

Please Note: All measurements are made with light source at operating temperature. Before starting the measurement, the instrument analyzes the process of the light source during the heating phase. The measuring process of all the parameters begins only when the light emission is stable, that is with a variation of less than 0.5% in a 15 minutes time frame.

Prolights measurement software

The software provides user friendly interface for the operator who does the measurements, and it also analyzes and processes all the collected data by the instrument. With this software it is possible to see the measured data in real-time and it is possible to examine all the measured data and graphics afterwards as well. All information is collected in a specific Prolights template, and the software creates also IES and LDT files, which are widely used to transfer the photometric data, and to develop lighting system.

Additionally, the fixtures are rechecked using various hand-held instruments like Sekonic C-700 and Gossen Mavospec Base, this is done to ensure, that the data in the photometric report are as accurate as possible.



Total lumen output:

1097 lm

Peak candela output:

1573 cd

Light quality:

CRI: 97,7

Color temperature:

3943 K

PRODUCT NAME:

ECLDISPLAYVW

MEASURAMENT CONDITIONS:

Beam angle:

Wash 2550 Max Zoom

Target:

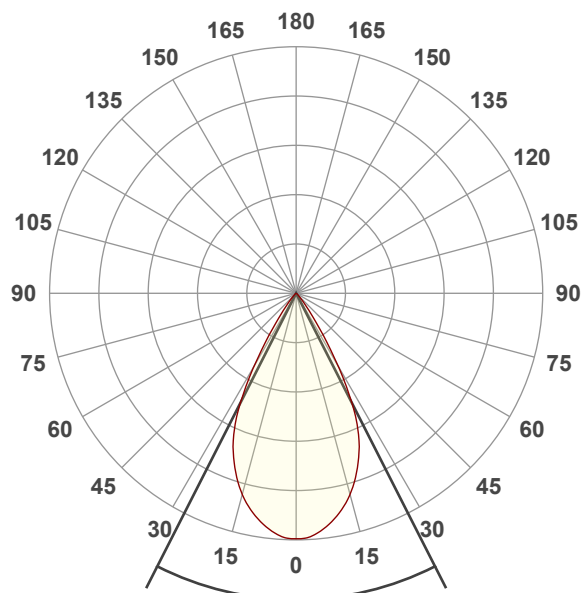
Full On

Operator:

Paolo Carvone

Date and time:

29/03/2023 12:01:41

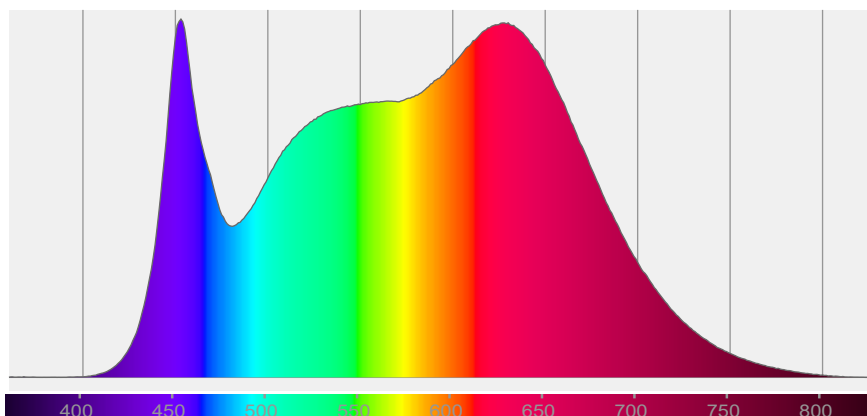


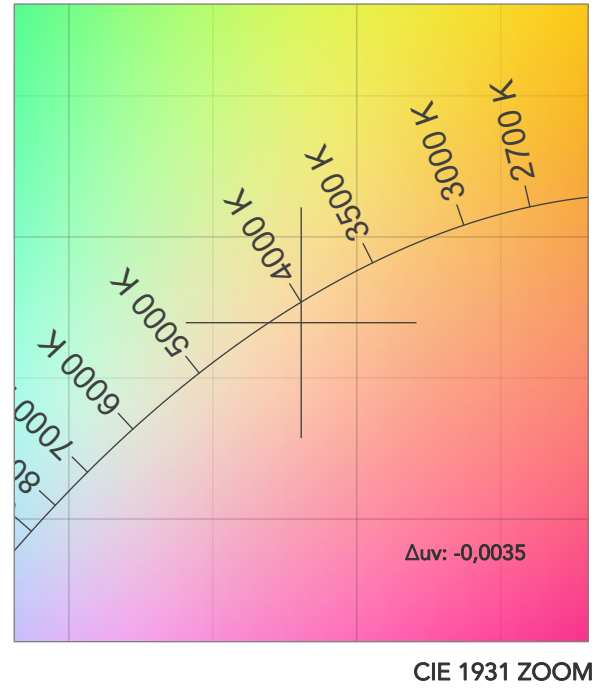
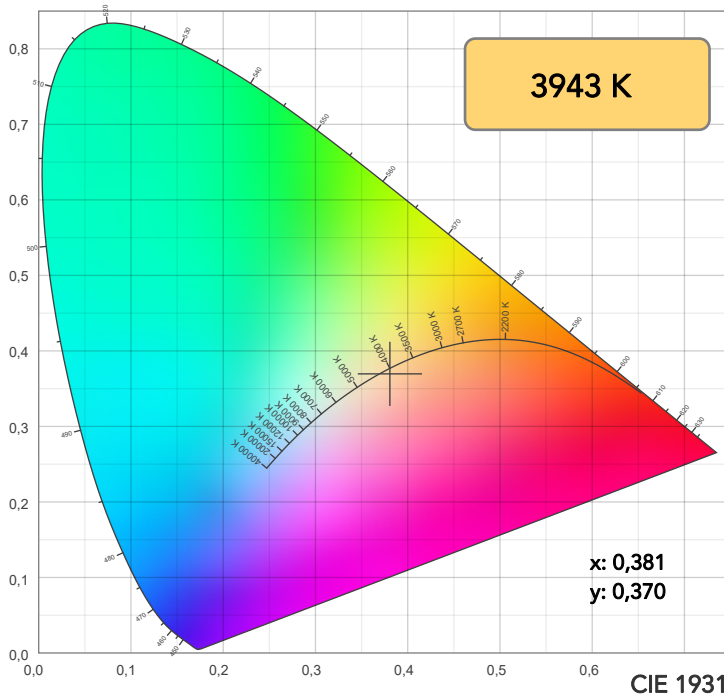
Beam angle 50%: 53,9°

Field angle 10%: 72,6°

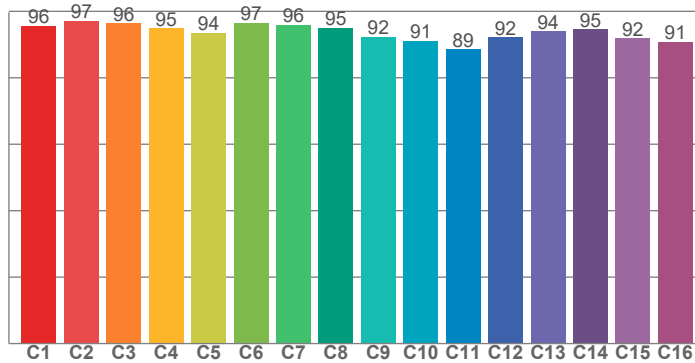
Cut off angle 2.5%: 85,7°

Spectra

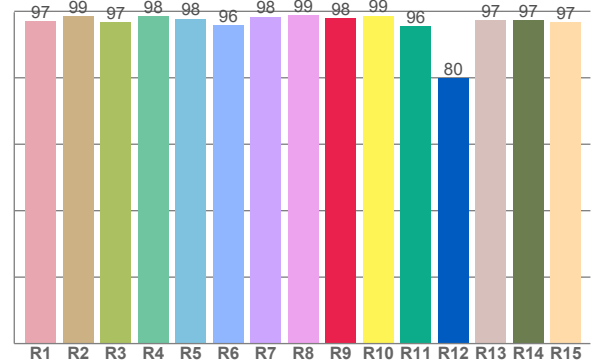




TM30: 93,6



CRI: 97,7 (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
97,0	98,5	96,6	98,4	97,7	95,7	98,4	98,8	98,0	98,7	95,6	79,9	97,2	97,3	96,6

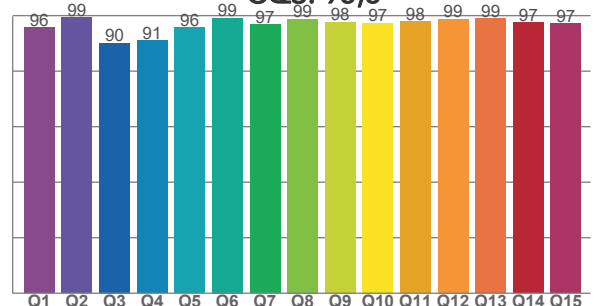
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,6	97,1	96,4	94,8	93,5	96,6	96,0	95,0	92,3	91,1	88,6	92,1	94,0	94,5	91,9	90,7

CQS Q values

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

CQS: 95,8



COLOR PARAMETERS

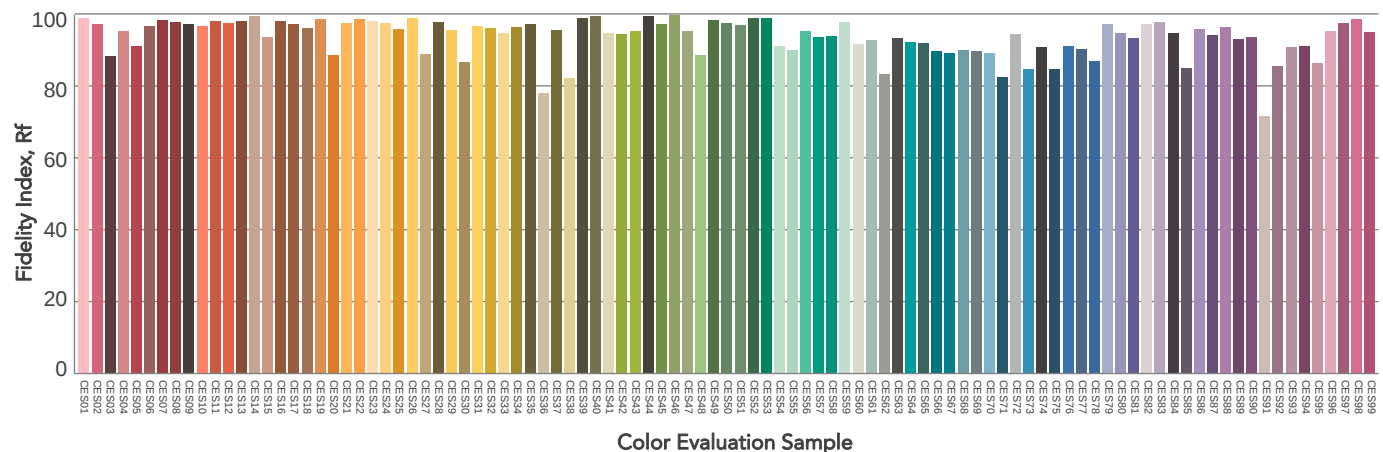
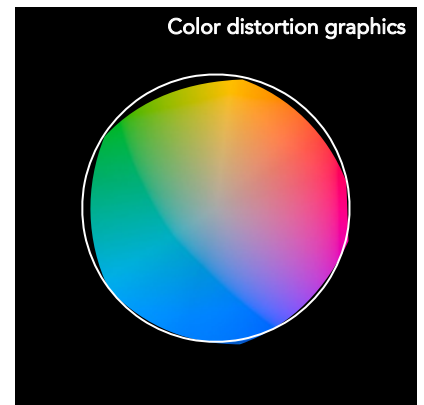
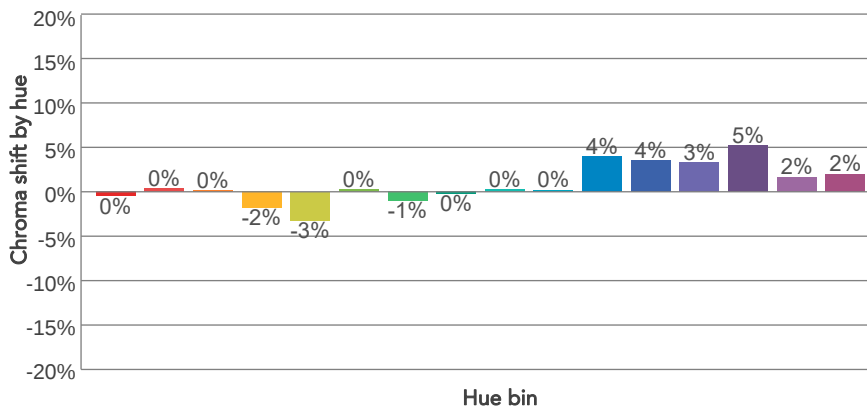
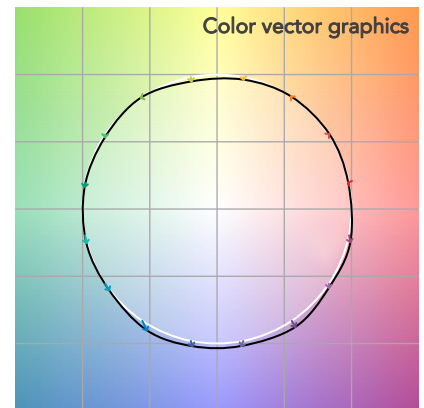
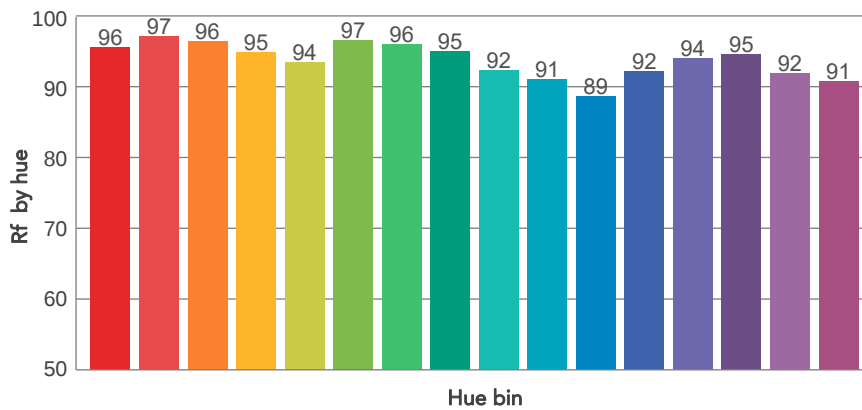
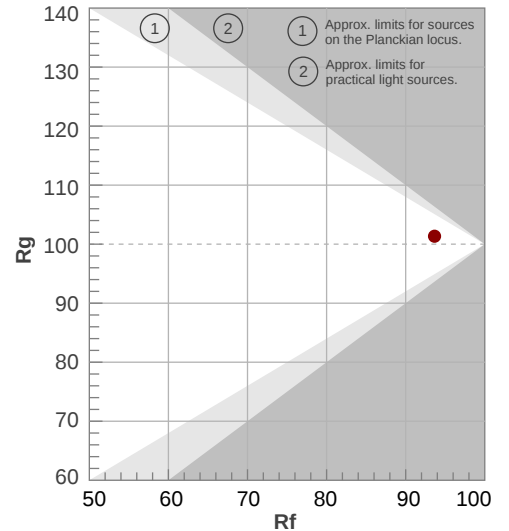
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3943 K	97,7	98,0	93,6	101,3	95,8	98	0,381	0,370	-0,0035

TM30 DETAILS

Rf 93,6
Fidelity index Rf

Rg 101,3
Gammut index

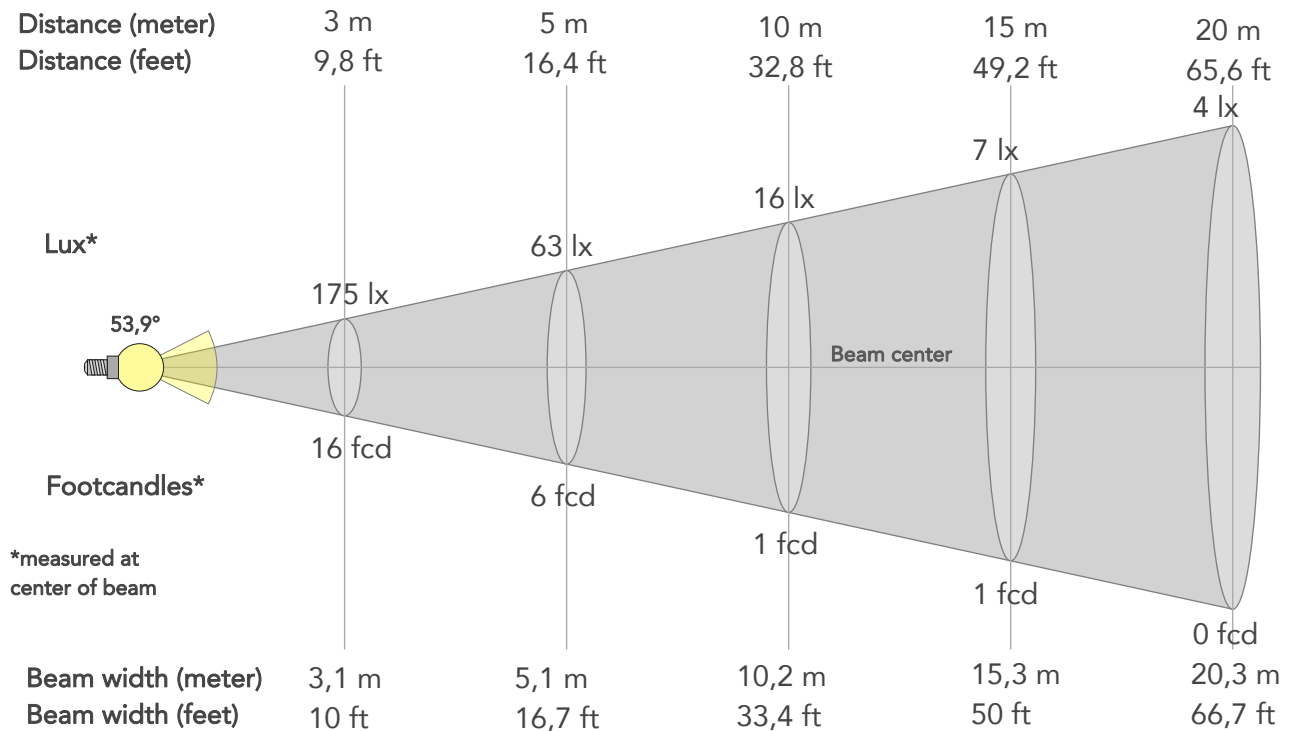
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	96	0%	0%
2	97	0%	0%
3	96	0%	1%
4	95	-2%	-1%
5	94	-3%	0%
6	97	0%	1%
7	96	-1%	2%
8	95	0%	3%
9	92	0%	6%
10	91	0%	6%
11	89	4%	7%
12	92	4%	2%
13	94	3%	-2%
14	95	5%	0%
15	92	2%	-2%
16	91	2%	-5%



BEAM DETAILS



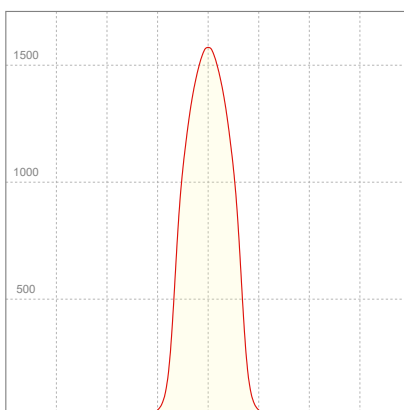
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
53,9°	72,6°	85,7°	99,9%	98,6%



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	1573lx	393lx	175lx	98lx	63lx	28lx	16lx	7lx	4lx	3lx	2lx	1lx	1lx
Footcand.	146fcd	37fcd	16fcd	9fcd	6fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2m	3,1m	4,1m	5,1m	7,6m	10,2m	15,3m	20,3m	25,4m	30,5m	40,7m	50,9m
Beam wid.	3,4ft	6,7ft	10ft	13,3ft	16,7ft	25ft	33,4ft	50ft	66,7ft	83,4ft	100,1ft	133,4ft	166,8ft

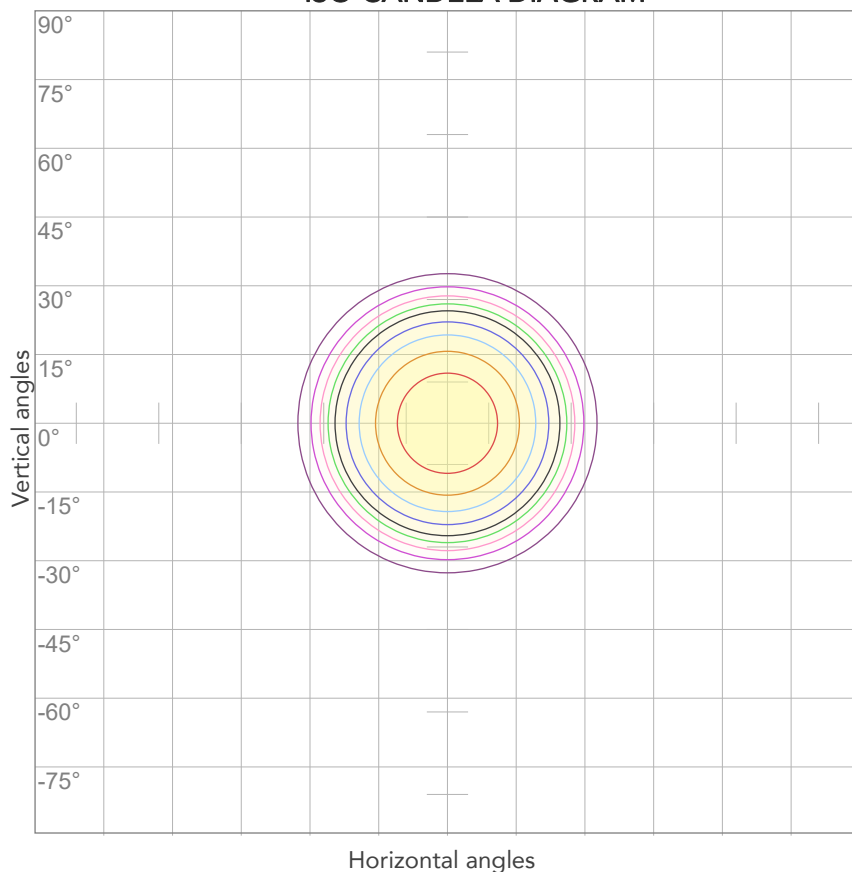
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,155A	32,2W	34lm/W

ISO CANDELA DIAGRAM



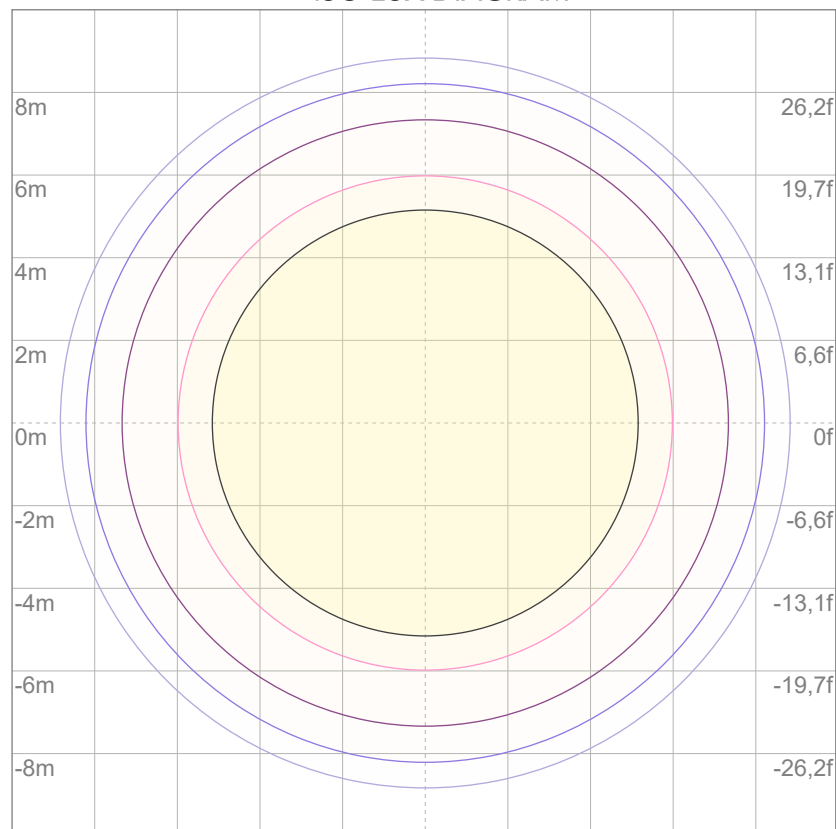
10%	157 cd
20%	315 cd
30%	472 cd
40%	629 cd
50%	786 cd
60%	944 cd
70%	1101 cd
80%	1258 cd

Conditions:

Number of c-planes: 2

Candela at center: 1573 cd

ISO LUX DIAGRAM



3%	0,472 lx
5%	0,786 lx
10%	1,57 lx
30%	4,72 lx
50%	7,86 lx

Conditions:

Number of c-planes: 2

Lux at center: 15,7 lx

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



Total lumen output:

766 lm

Peak candela output:

4278 cd

Light quality:

CRI: 97,5

Color temperature:

3914 K

PRODUCT NAME:

ECLDISPLAYVW

MEASURAMENT CONDITIONS:

Beam angle:

Wash 2550 Min Zoom

Target:

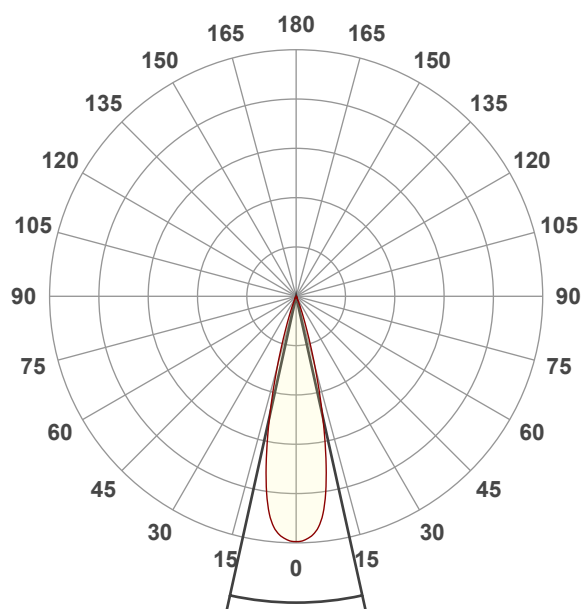
Full On

Operator:

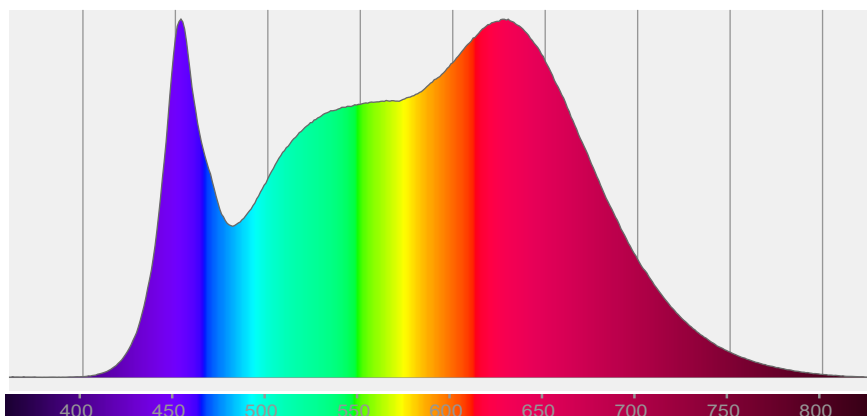
Paolo Carvone

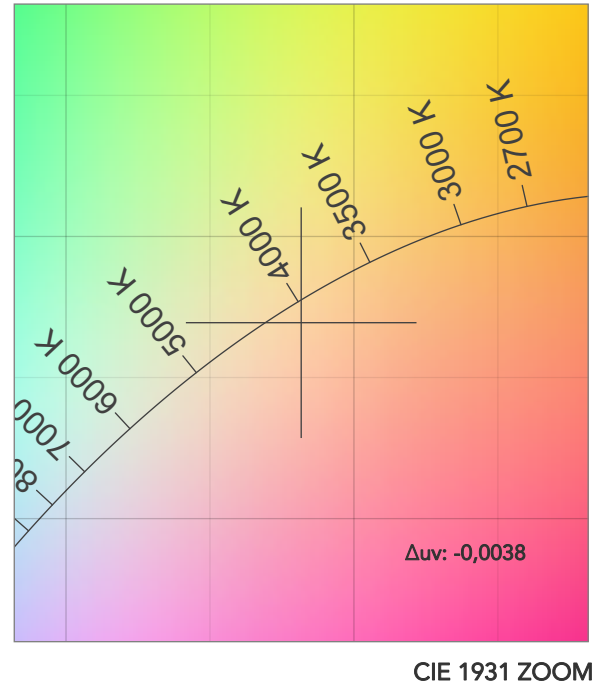
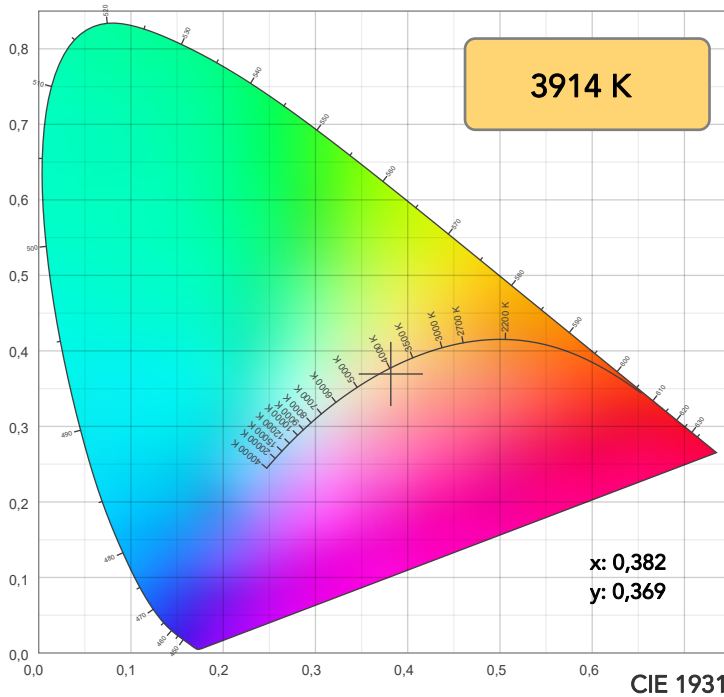
Date and time:

29/03/2023 11:46:51

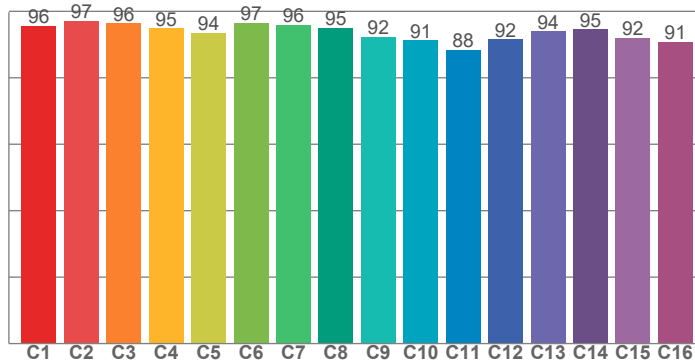


Spectra

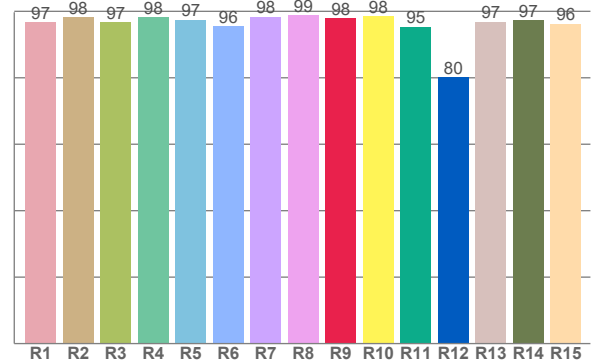




TM30: 93,7



CRI: 97,5 (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
96,7	98,3	96,8	98,2	97,5	95,6	98,4	98,9	97,9	98,5	95,4	80,3	96,9	97,3	96,3

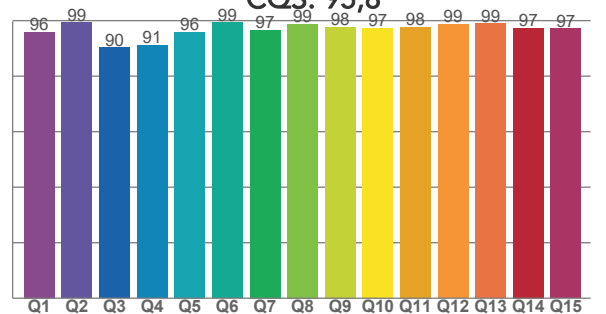
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,6	97,1	96,4	94,9	93,5	96,6	96,0	95,0	92,3	91,2	88,5	91,6	94,0	94,5	92,0	90,8

CQS Q values

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

CQS: 95,8



COLOR PARAMETERS

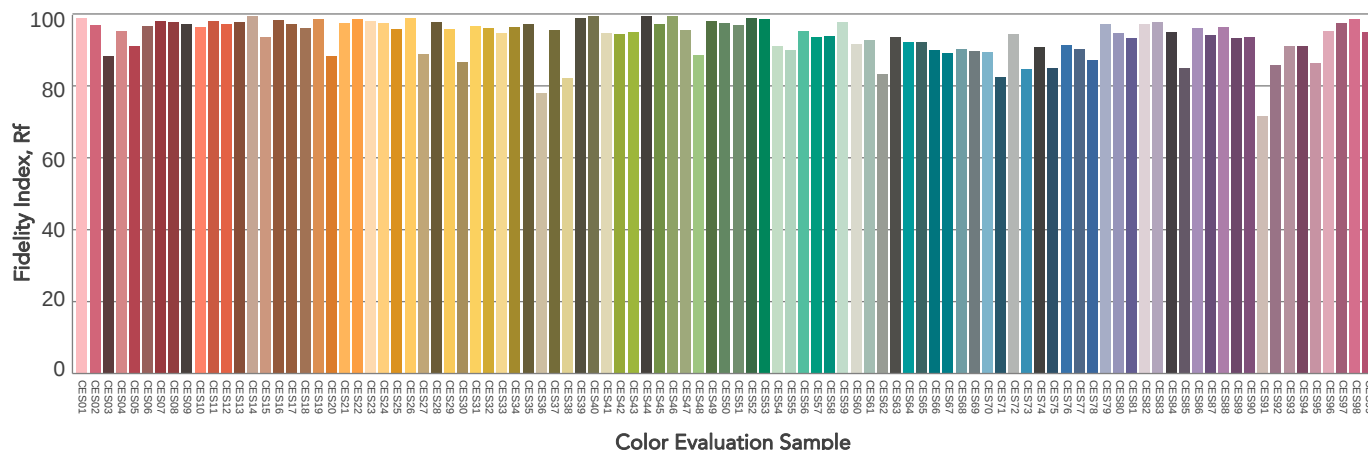
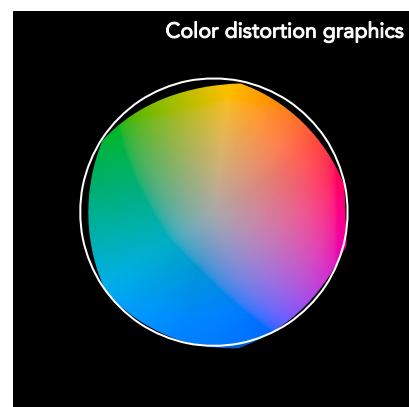
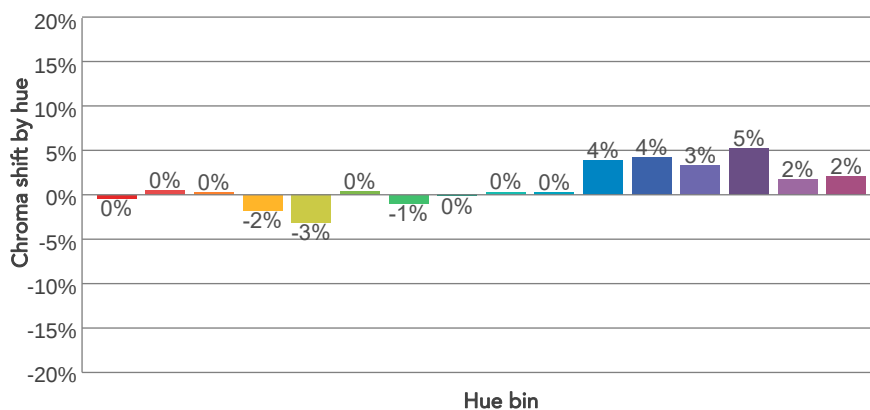
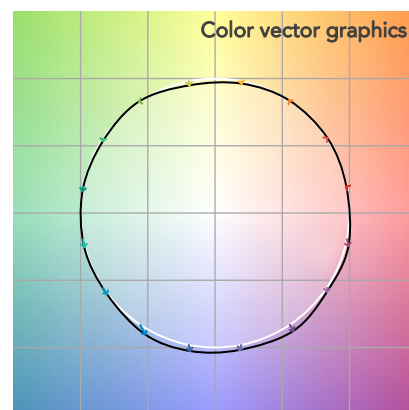
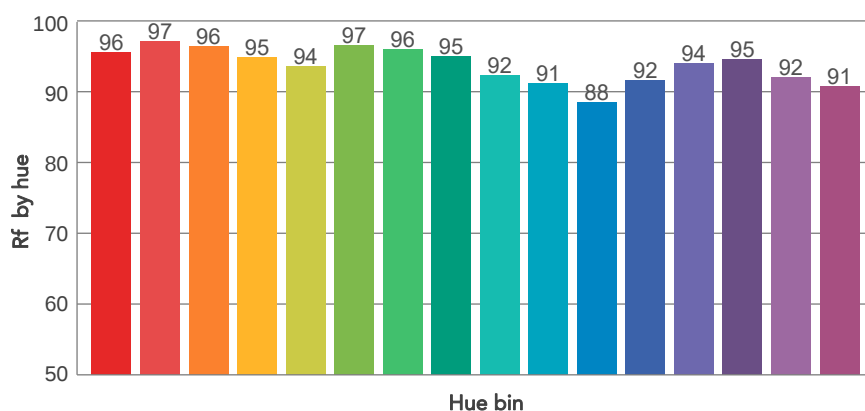
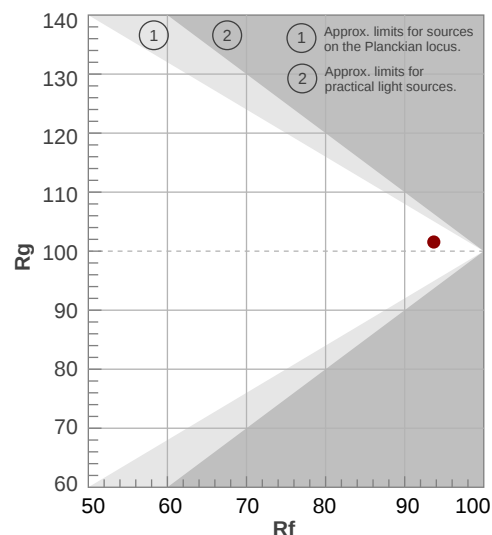
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3914 K	97,5	97,9	93,7	101,5	95,8	98	0,382	0,369	-0,0038

TM30 DETAILS

Rf 93,7
Fidelity index Rf

Rg 101,5
Gammut index

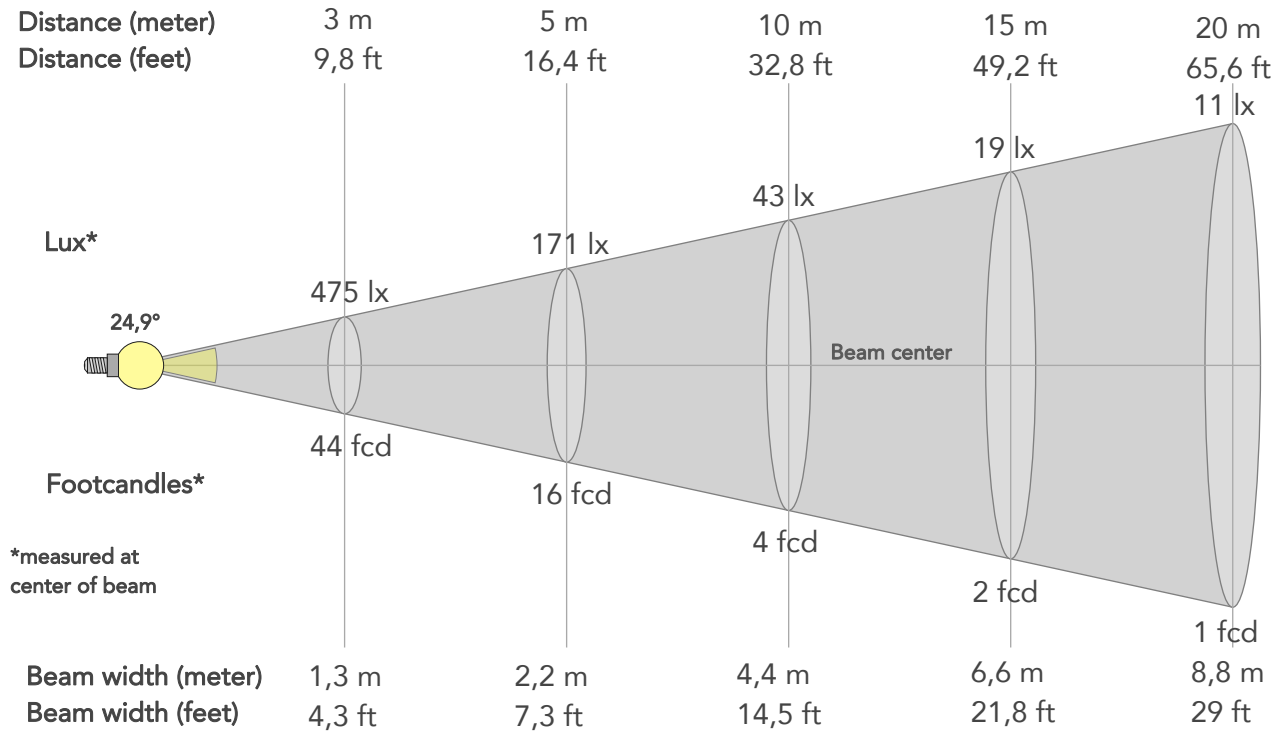
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	96	0%	0%
2	97	0%	0%
3	96	0%	1%
4	95	-2%	-1%
5	94	-3%	0%
6	97	0%	1%
7	96	-1%	2%
8	95	0%	3%
9	92	0%	6%
10	91	0%	6%
11	88	4%	7%
12	92	4%	2%
13	94	3%	-2%
14	95	5%	0%
15	92	2%	-2%
16	91	2%	-5%



BEAM DETAILS



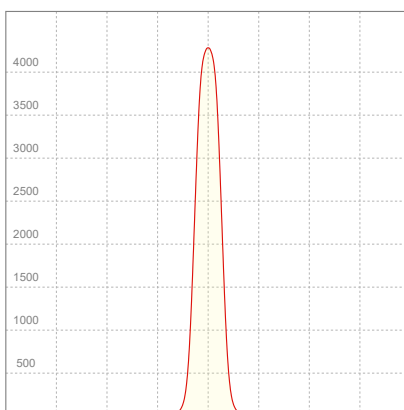
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
24,9°	37,6°	46,9°	100,0%	99,9%



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	4278lx	1070lx	475lx	267lx	171lx	76lx	43lx	19lx	11lx	7lx	5lx	3lx	2lx
Footcand.	397fcd	99fcd	44fcd	25fcd	16fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,4m	0,9m	1,3m	1,8m	2,2m	3,3m	4,4m	6,6m	8,8m	11,1m	13,3m	17,7m	22,1m
Beam wid.	1,5ft	2,9ft	4,3ft	5,8ft	7,3ft	10,9ft	14,5ft	21,8ft	29ft	36,3ft	43,5ft	58ft	72,6ft

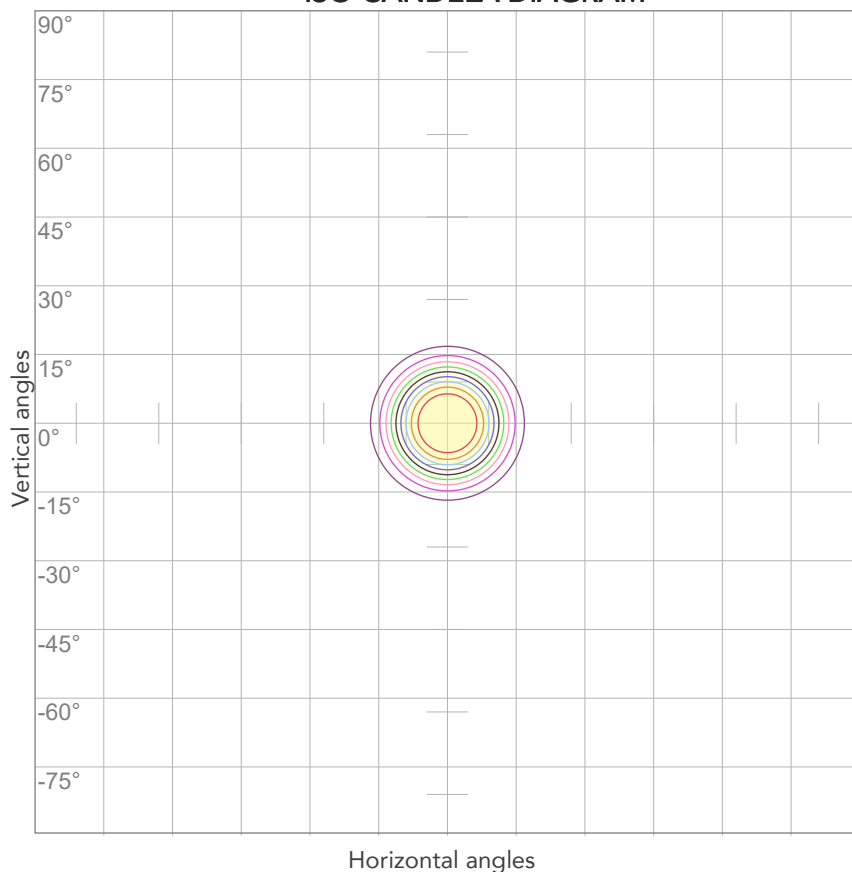
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,158A	32,6W	23lm/W

ISO CANDELA DIAGRAM



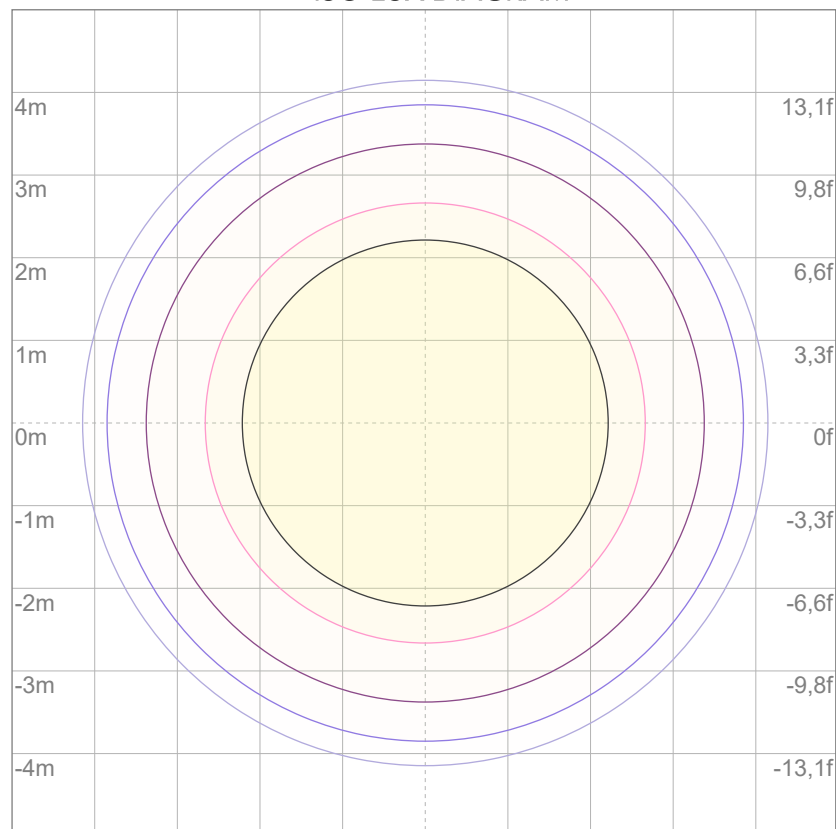
10%	428 cd
20%	856 cd
30%	1283 cd
40%	1711 cd
50%	2139 cd
60%	2567 cd
70%	2995 cd
80%	3422 cd

Conditions:

Number of c-planes: 2

Candela at center: 4278 cd

ISO LUX DIAGRAM



3%	1,28 lx
5%	2,14 lx
10%	4,28 lx
30%	12,8 lx
50%	21,4 lx

Conditions:

Number of c-planes: 2

Lux at center: 42,8 lx

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



Total lumen output:

866 lm

Peak candela output:

1229 cd

Light quality:

CRI: 96,2

Color temperature:

2748 K

PRODUCT NAME:

ECLDISPLAYVW

MEASURAMENT CONDITIONS:

Beam angle:

Wash 2550 Max Zoom

Target:

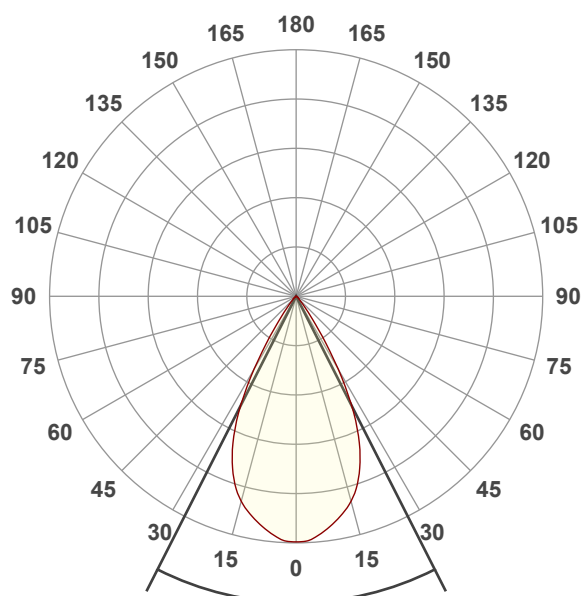
Warm White

Operator:

Paolo Carvone

Date and time:

29/03/2023 12:00:12

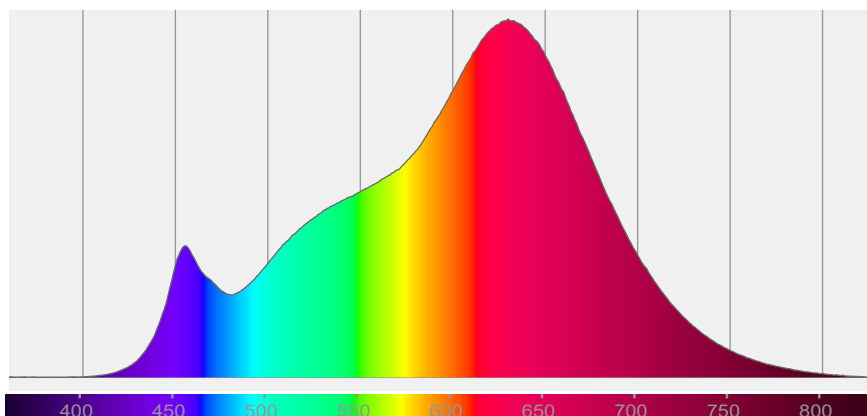


Beam angle 50%: 53,8°

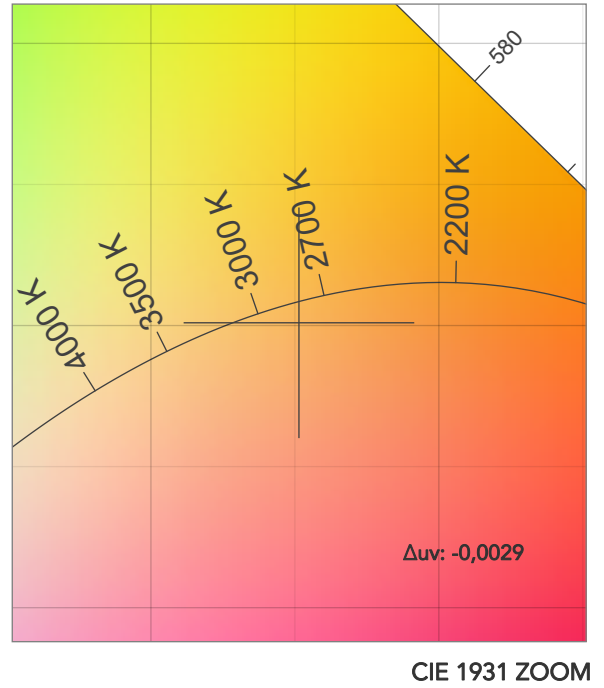
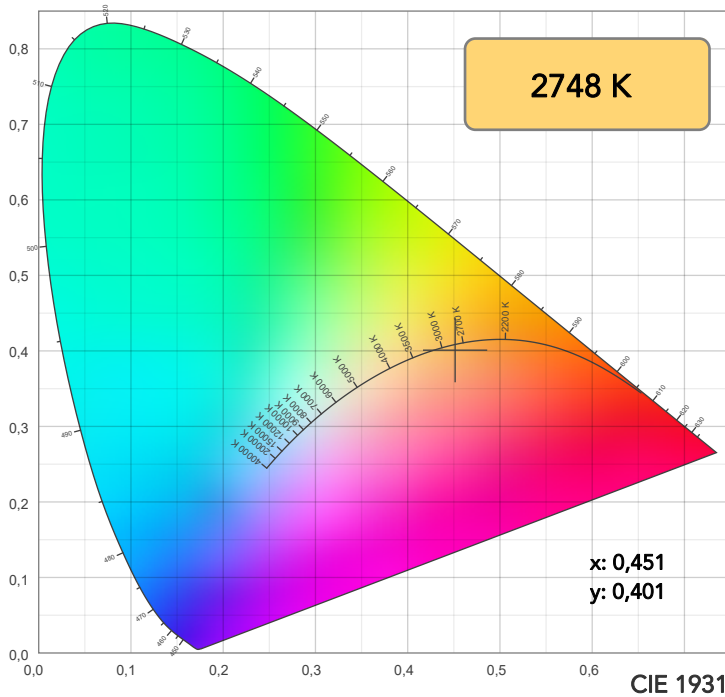
Field angle 10%: 72,5°

Cut off angle 2.5%: 86,1°

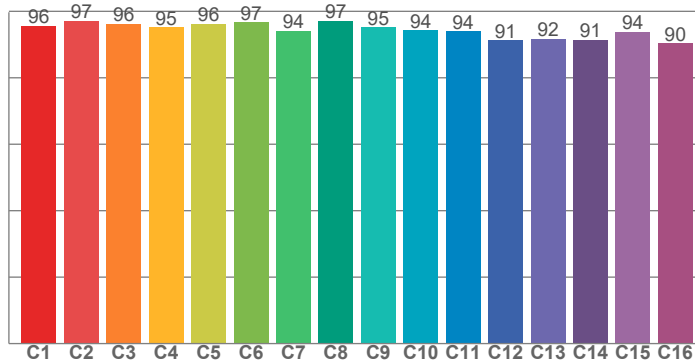
Spectra



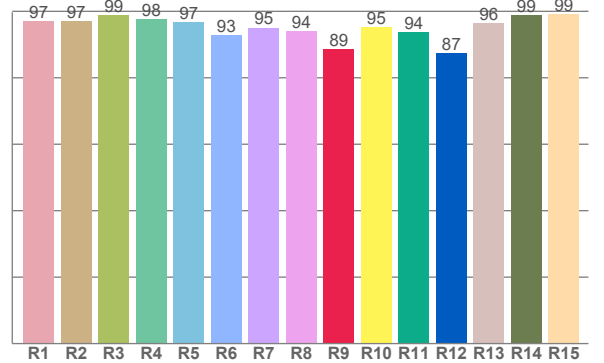
COLOR DETAILS



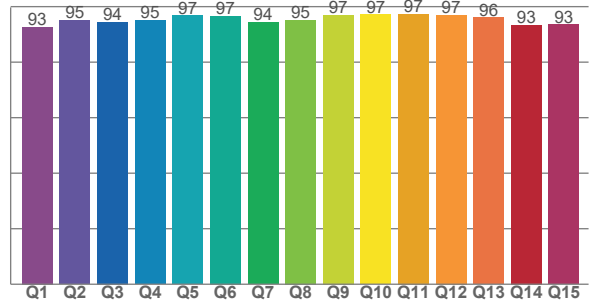
TM30: 94,6



CRI: 96,2 (R1-R8)



CQS: 95,0



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97,0	97,0	98,9	97,7	96,6	92,9	95,0	94,0	88,5	95,3	93,7	87,4	96,4	98,8	99,1

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

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

CQS Q values

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

COLOR PARAMETERS

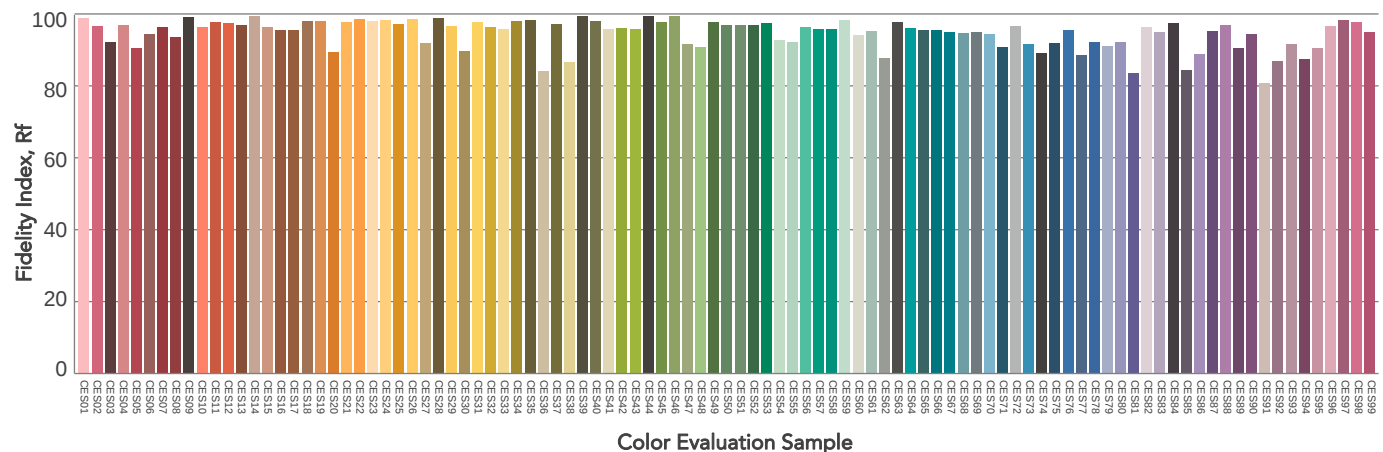
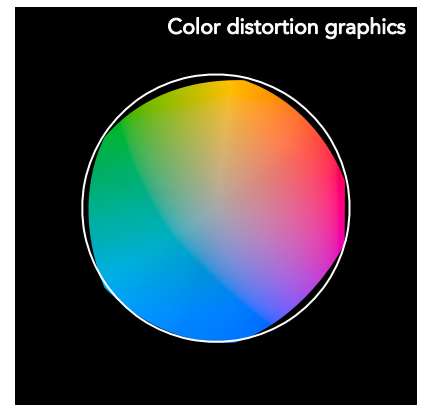
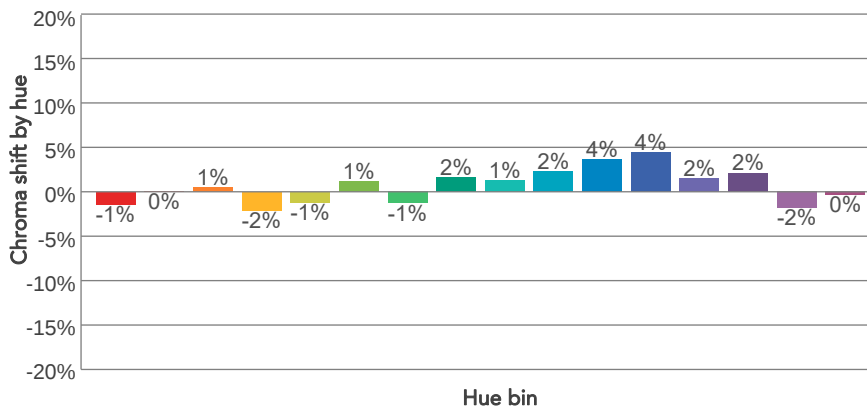
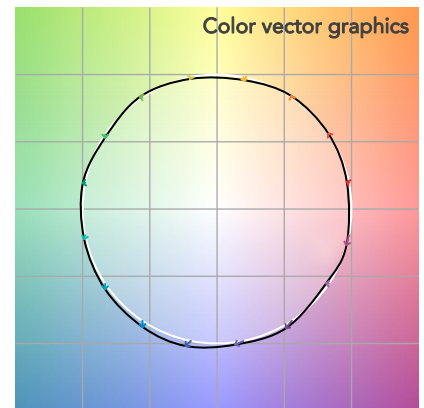
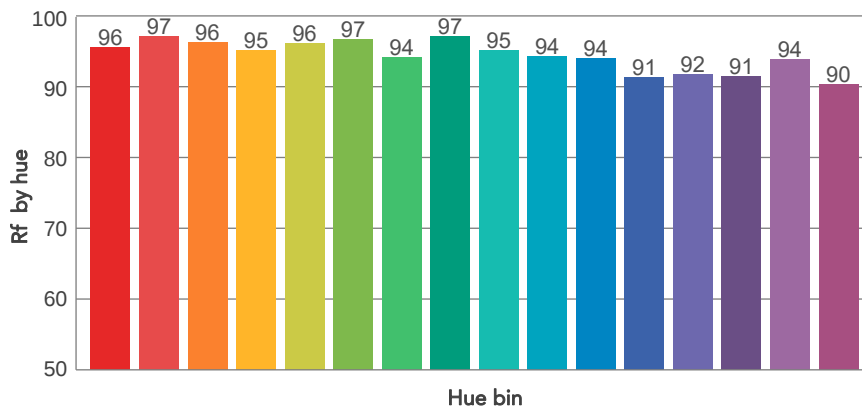
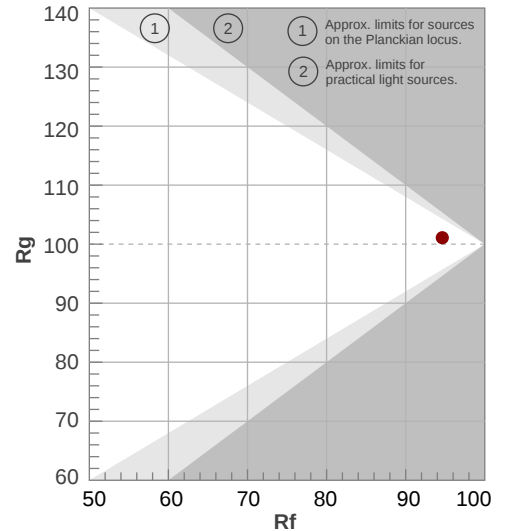
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2748 K	96,2	88,5	94,6	101,1	95,0	96	0,451	0,401	-0,0029

TM30 DETAILS

Rf 94,6
Fidelity index Rf

Rg 101,1
Gammut index

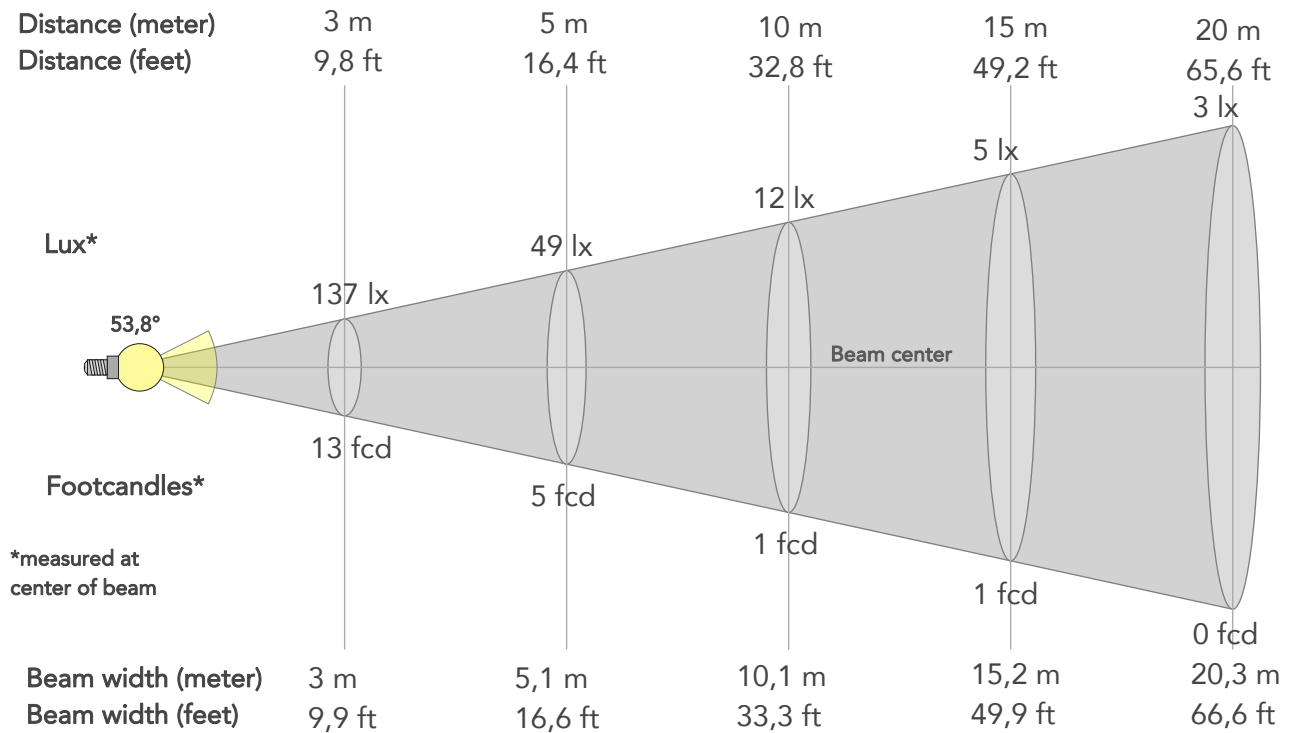
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	96	-1%	1%
2	97	0%	1%
3	96	1%	1%
4	95	-2%	-2%
5	96	-1%	1%
6	97	1%	1%
7	94	-1%	2%
8	97	2%	1%
9	95	1%	3%
10	94	2%	3%
11	94	4%	3%
12	91	4%	-3%
13	92	2%	-6%
14	91	2%	-6%
15	94	-2%	-1%
16	90	0%	-8%



BEAM DETAILS



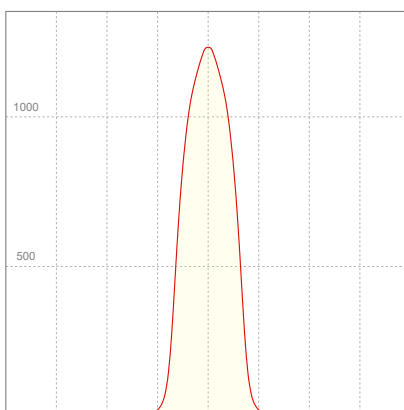
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
53,8°	72,5°	86,1°	99,8%	98,4%



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	1229lx	307lx	137lx	77lx	49lx	22lx	12lx	5lx	3lx	2lx	1lx	1lx	0lx
Footcand.	114fcd	29fcd	13fcd	7fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2m	3m	4,1m	5,1m	7,6m	10,1m	15,2m	20,3m	25,4m	30,4m	40,6m	50,7m
Beam wid.	3,3ft	6,7ft	9,9ft	13,3ft	16,6ft	25ft	33,3ft	49,9ft	66,6ft	83,2ft	99,9ft	133,2ft	166,4ft

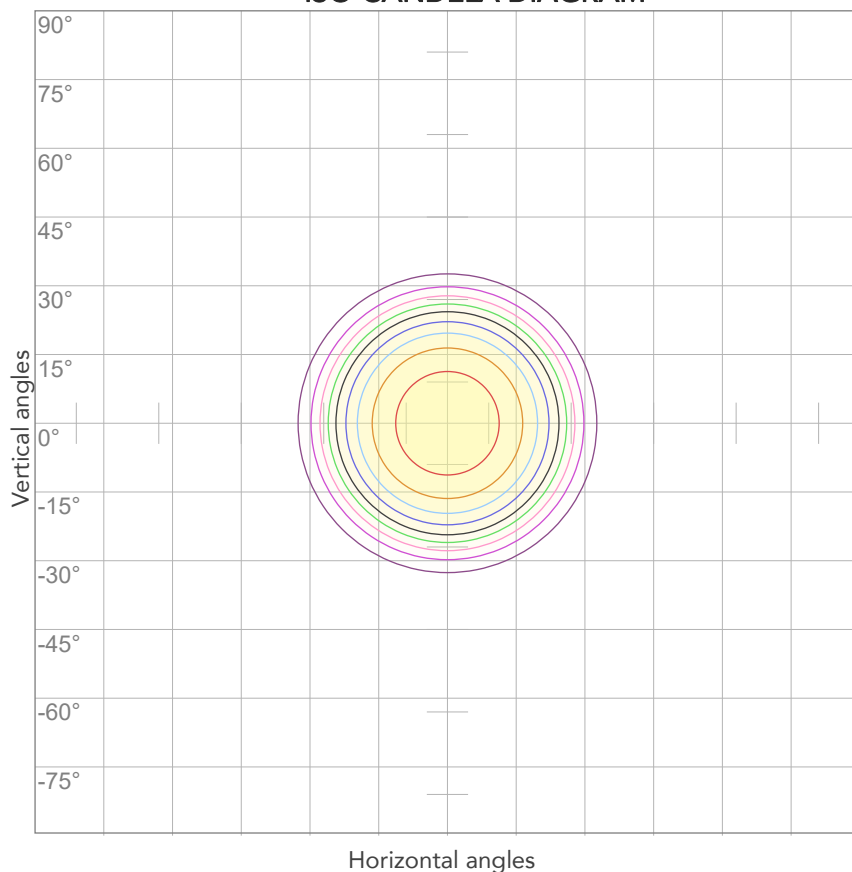
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,152A	31,6W	27lm/W

ISO CANDELA DIAGRAM



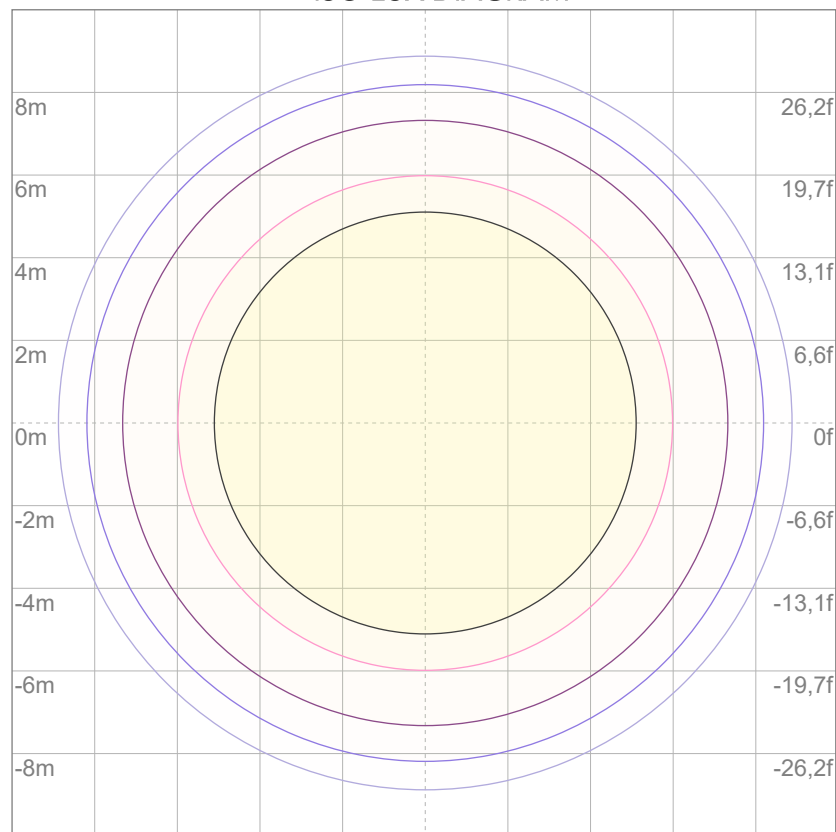
10%	123 cd
20%	246 cd
30%	369 cd
40%	492 cd
50%	615 cd
60%	738 cd
70%	860 cd
80%	983 cd

Conditions:

Number of c-planes: 2

Candela at center: 1229 cd

ISO LUX DIAGRAM



3%	0,369 lx
5%	0,615 lx
10%	1,23 lx
30%	3,69 lx
50%	6,15 lx

Conditions:

Number of c-planes: 2

Lux at center: 12,3 lx

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



Total lumen output:

602 lm

Peak candela output:

3362 cd

Light quality:

CRI: 96,1

Color temperature:

2719 K

PRODUCT NAME:

ECLDISPLAYVW

MEASURAMENT CONDITIONS:

Beam angle:

Wash 2550 Min Zoom

Target:

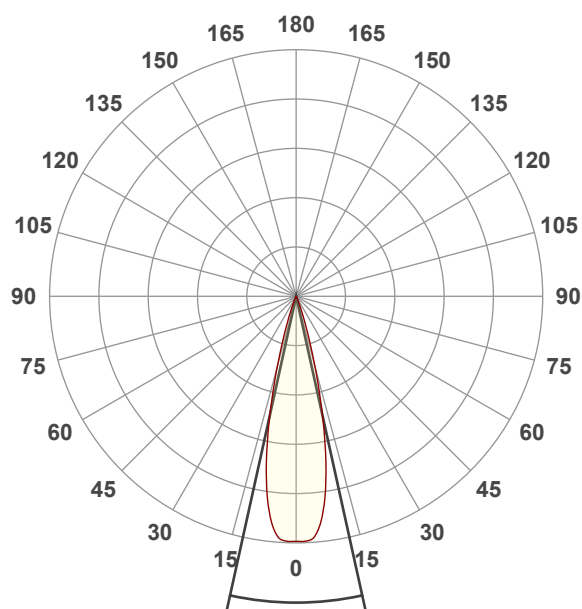
Warm White

Operator:

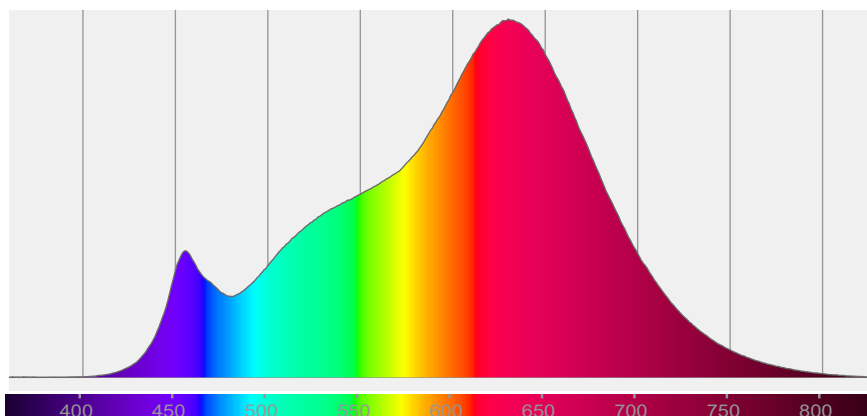
Paolo Carvone

Date and time:

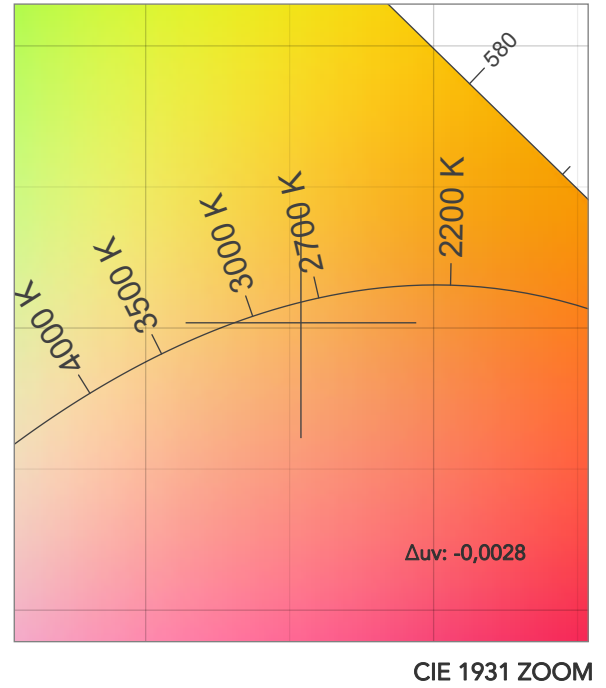
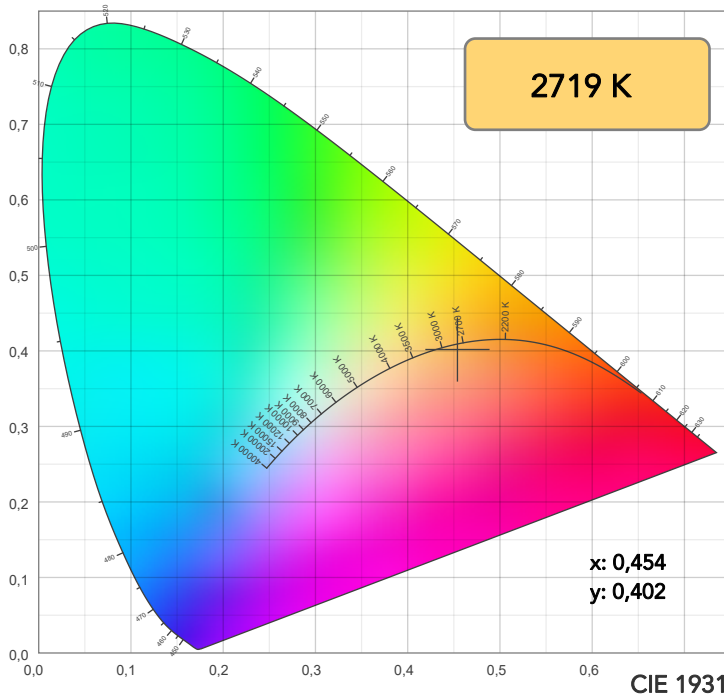
29/03/2023 11:48:14



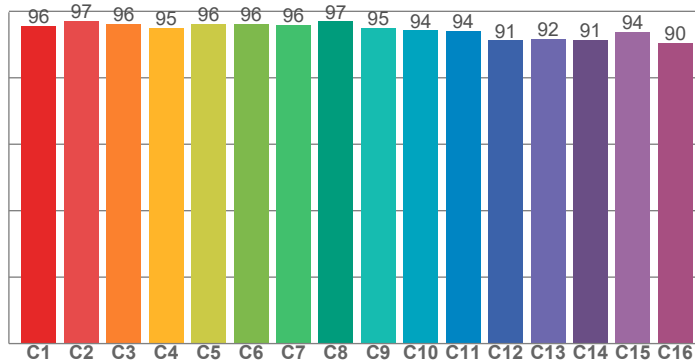
Spectra



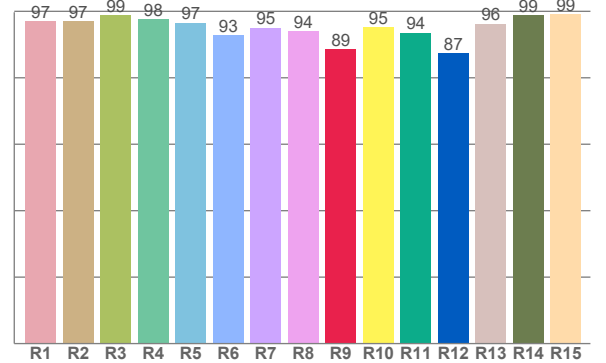
COLOR DETAILS



TM30: 94,6



CRI: 96,1 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97,0	96,9	98,9	97,6	96,5	92,8	95,0	94,1	88,7	95,2	93,6	87,4	96,3	98,8	99,1

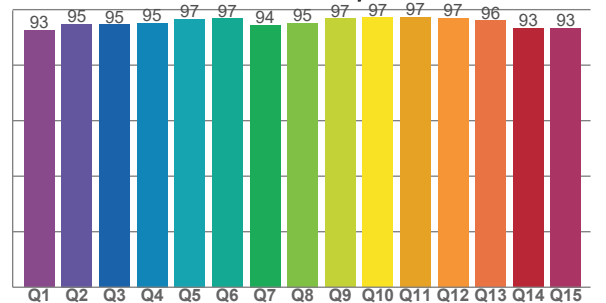
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

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

CQS: 95,0



COLOR PARAMETERS

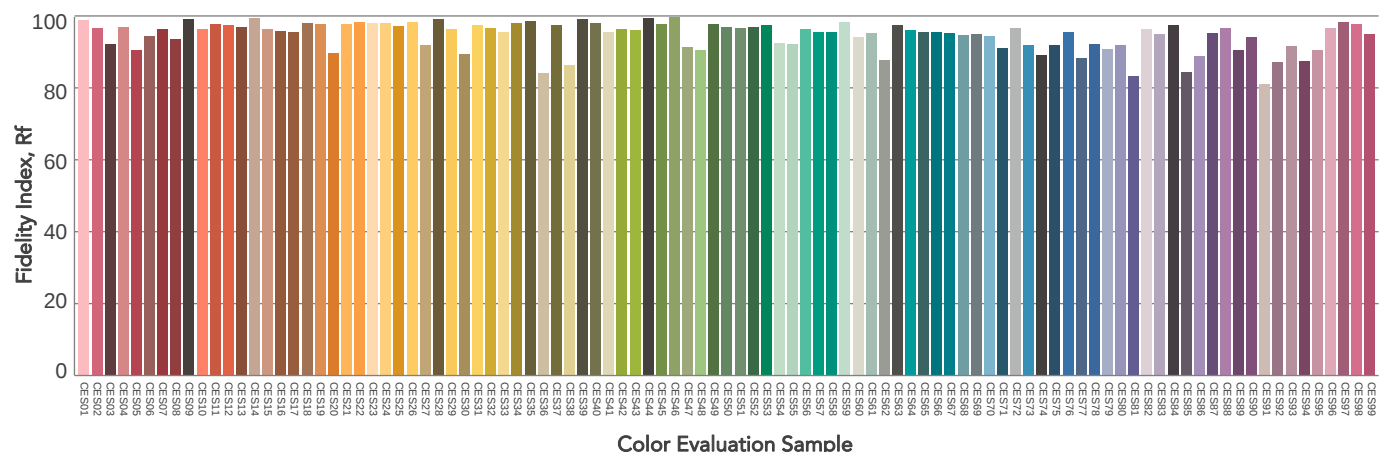
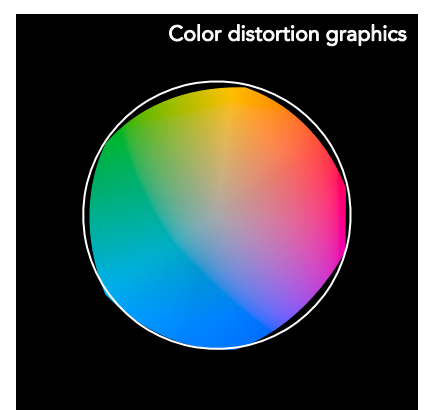
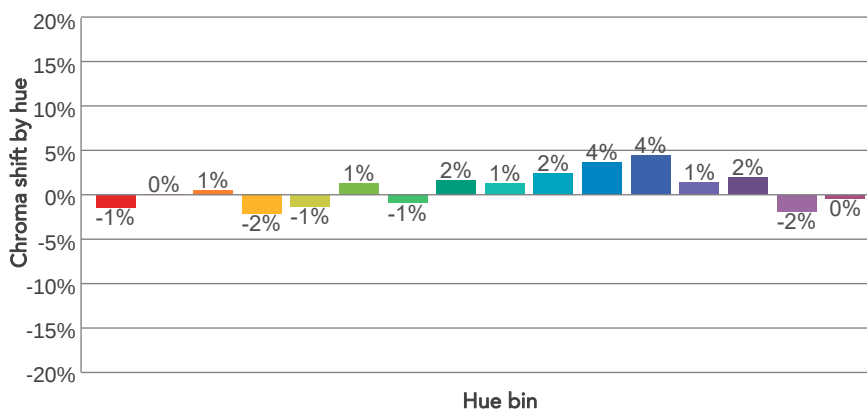
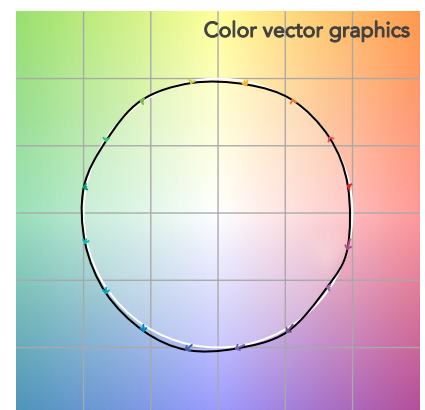
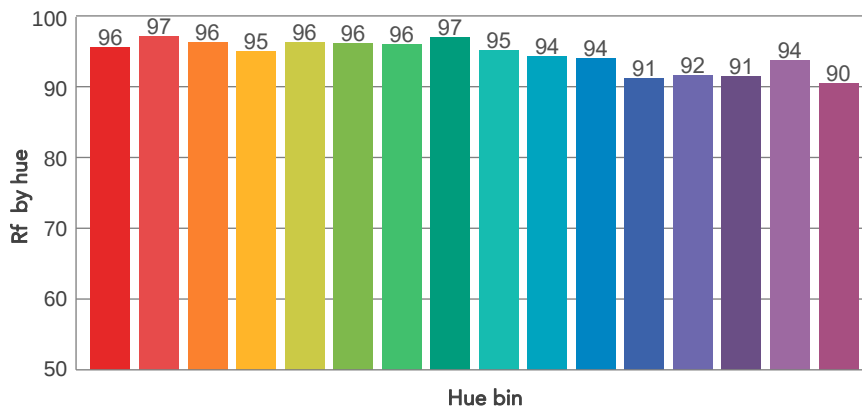
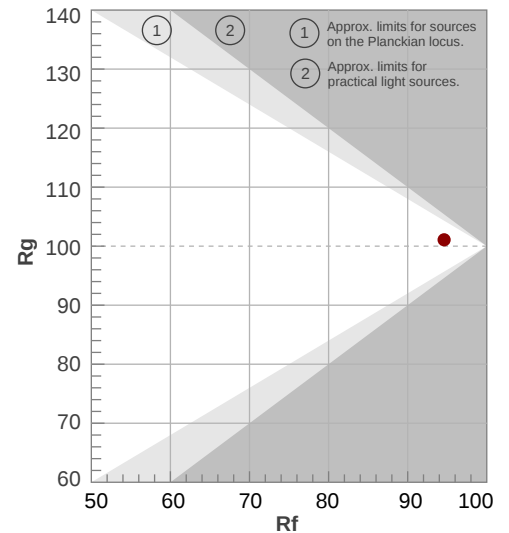
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2719 K	96,1	88,7	94,6	101,1	95,0	96	0,454	0,402	-0,0028

TM30 DETAILS

Rf 94,6
Fidelity index Rf

Rg 101,1
Gammut index

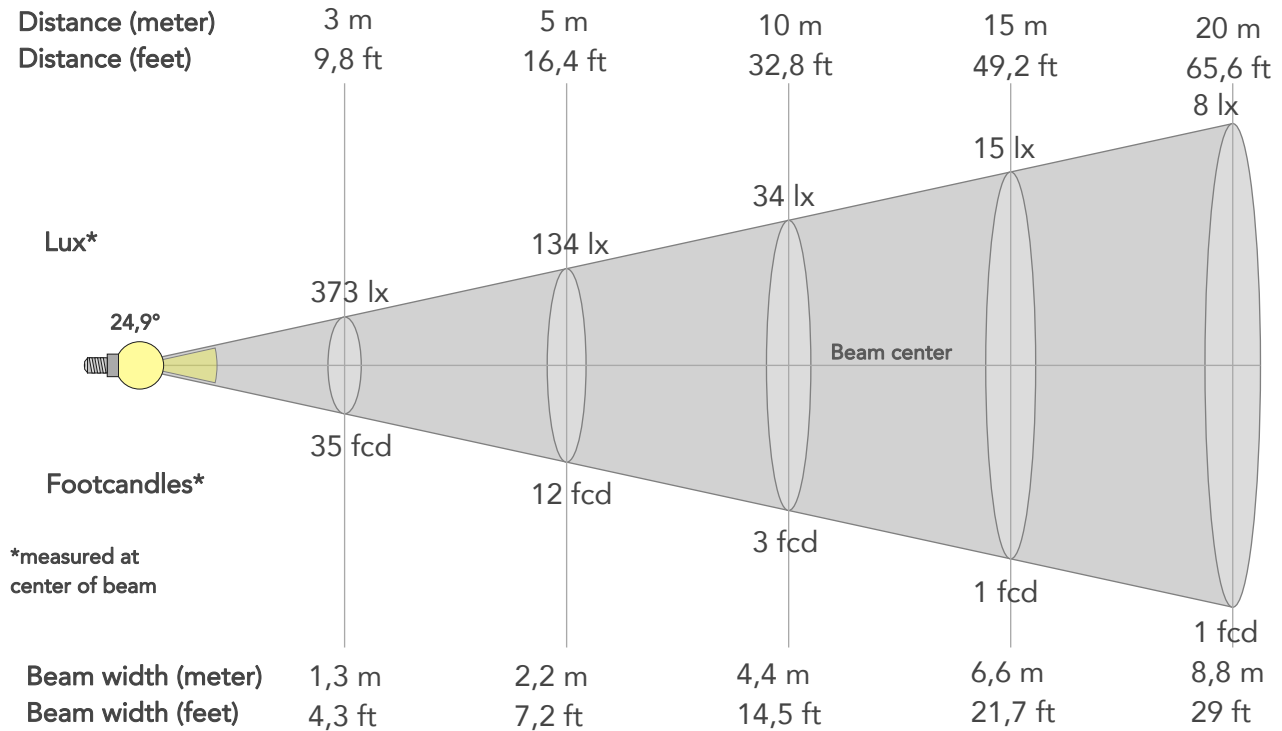
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	96	-1%	1%
2	97	0%	1%
3	96	1%	1%
4	95	-2%	-2%
5	96	-1%	1%
6	96	1%	1%
7	96	-1%	2%
8	97	2%	1%
9	95	1%	3%
10	94	2%	3%
11	94	4%	3%
12	91	4%	-3%
13	92	1%	-6%
14	91	2%	-7%
15	94	-2%	-1%
16	90	0%	-7%



BEAM DETAILS



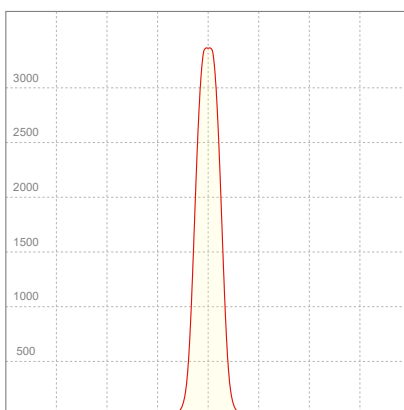
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
24,9°	37,9°	47,1°	100,0%	99,8%



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	3361lx	840lx	373lx	210lx	134lx	60lx	34lx	15lx	8lx	5lx	4lx	2lx	1lx
Footcand.	312fcd	78fcd	35fcd	20fcd	12fcd	6fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,4m	0,9m	1,3m	1,8m	2,2m	3,3m	4,4m	6,6m	8,8m	11m	13,3m	17,7m	22,1m
Beam wid.	1,5ft	2,9ft	4,3ft	5,8ft	7,2ft	10,9ft	14,5ft	21,7ft	29ft	36,2ft	43,5ft	58ft	72,5ft

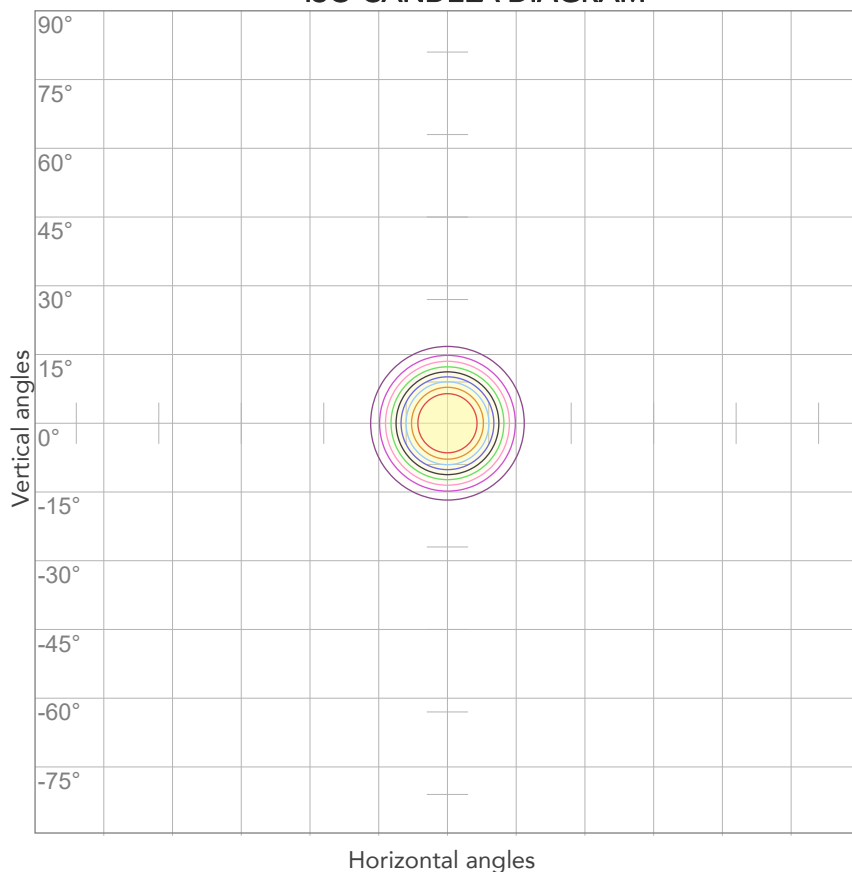
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,158A	33,0W	18lm/W

ISO CANDELA DIAGRAM



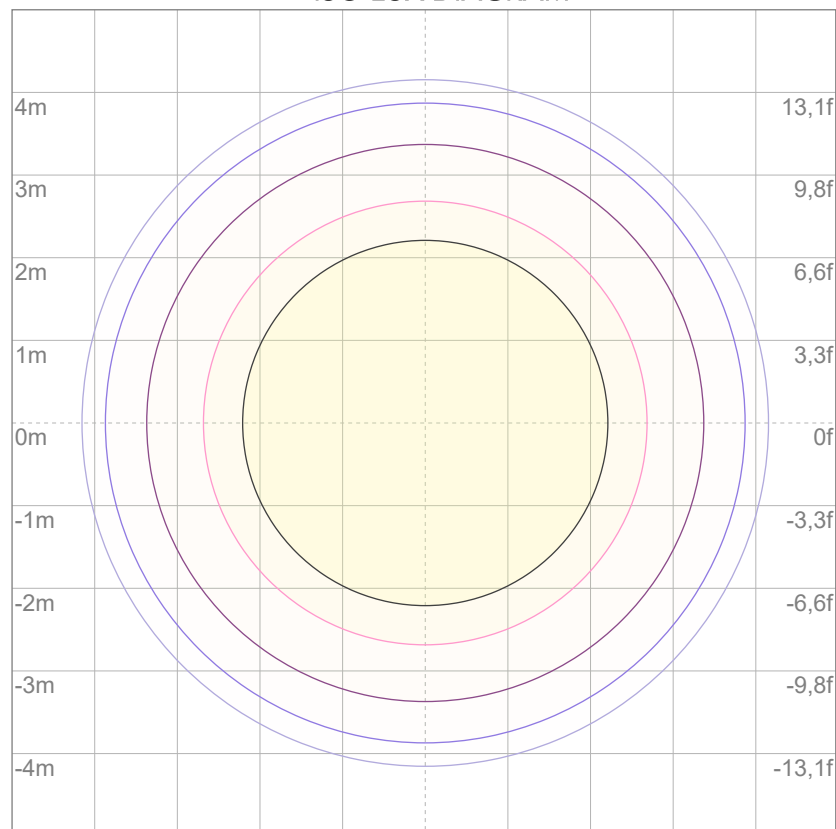
10%	336 cd
20%	672 cd
30%	1008 cd
40%	1345 cd
50%	1681 cd
60%	2017 cd
70%	2353 cd
80%	2689 cd

Conditions:

Number of c-planes: 2

Candela at center: 3361 cd

ISO LUX DIAGRAM



3%	1,01 lx
5%	1,68 lx
10%	3,36 lx
30%	10,1 lx
50%	16,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 33,6 lx

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



Total lumen output:

1183 lm

Peak candela output:

1714 cd

Light quality:

CRI: 96,6

Color temperature:

5382 K

PRODUCT NAME:

ECLDISPLAYVW

MEASURAMENT CONDITIONS:

Beam angle:

Wash 2550 Max Zoom

Target:

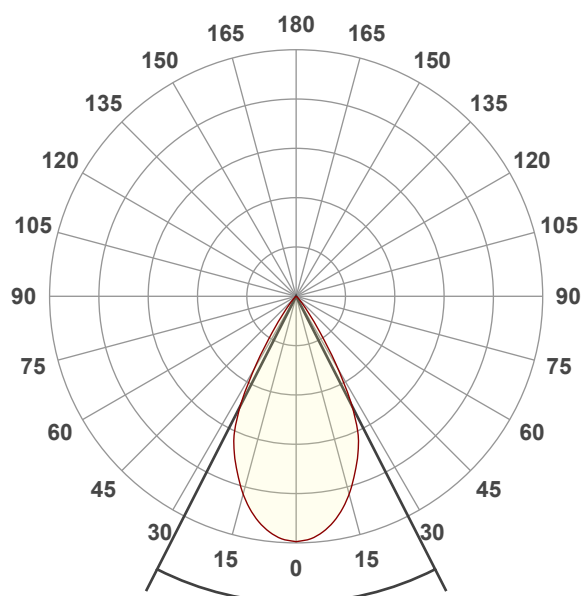
Cold White

Operator:

Paolo Carvone

Date and time:

29/03/2023 11:58:42

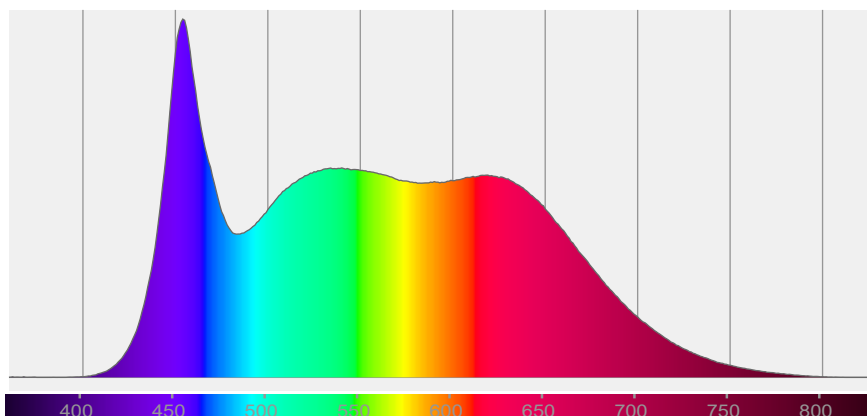


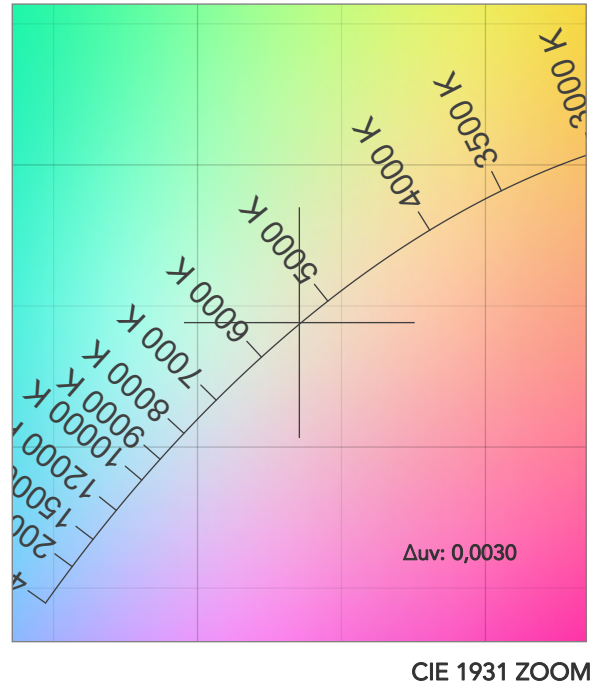
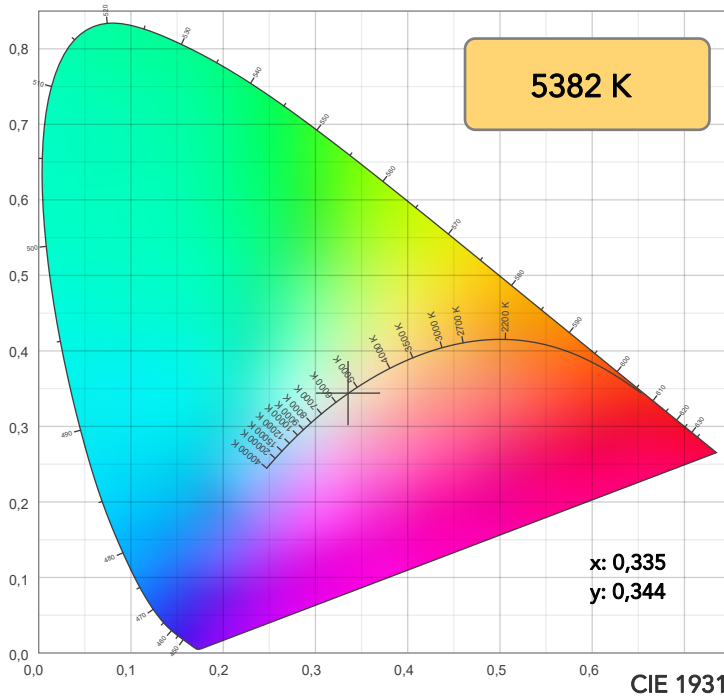
Beam angle 50%: 54°

Field angle 10%: 72,2°

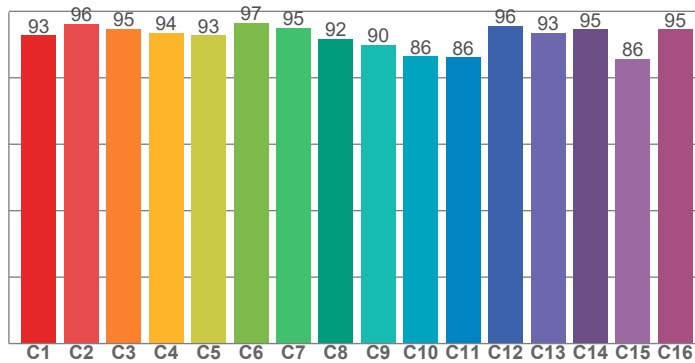
Cut off angle 2.5%: 85,1°

Spectra

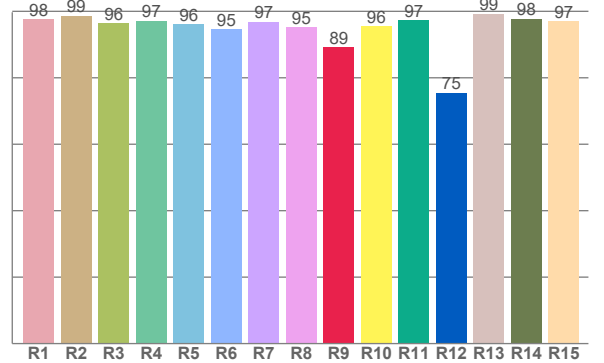




TM30: 92,3



CRI: 96,6 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97,7	98,7	96,5	97,2	96,2	94,5	96,9	95,3	89,2	95,5	97,3	75,5	99,3	97,7	97,0

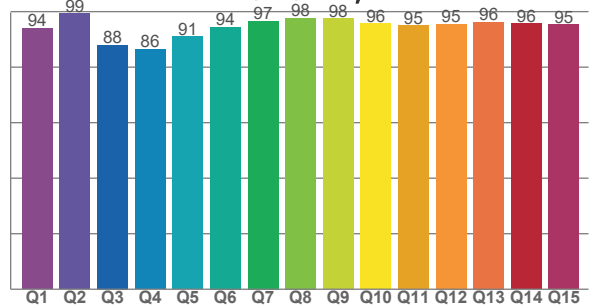
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,8	96,2	94,7	93,5	92,8	96,6	94,9	91,7	89,9	86,5	86,1	95,6	93,5	94,6	85,7	94,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,0	99,3	88,0	86,4	91,1	94,5	96,7	97,7	97,5	95,7	94,9	95,5	96,3	95,7	95,4

CQS: 93,6



COLOR PARAMETERS

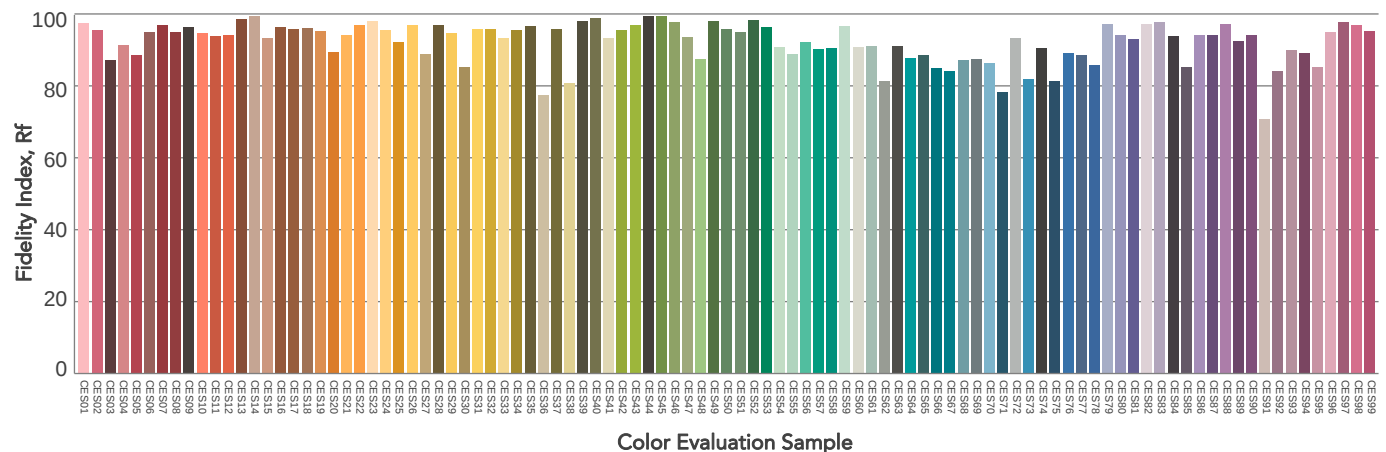
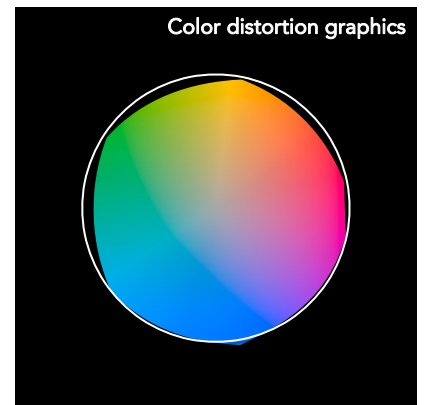
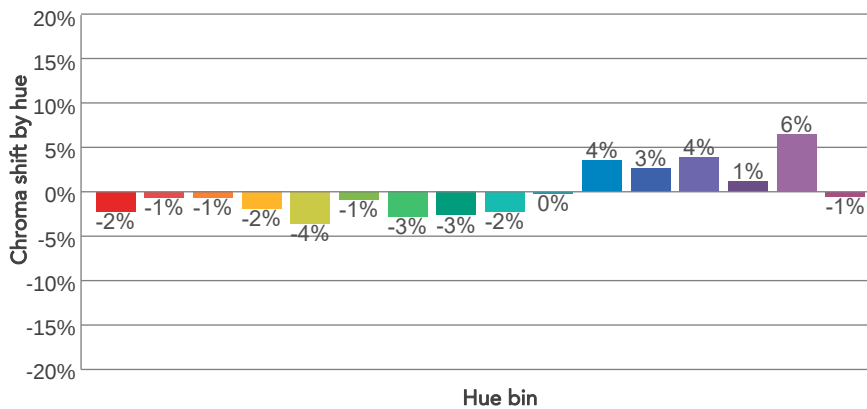
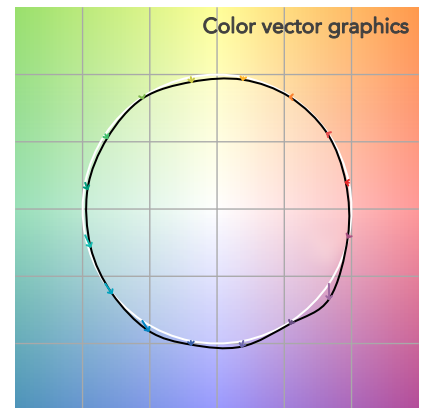
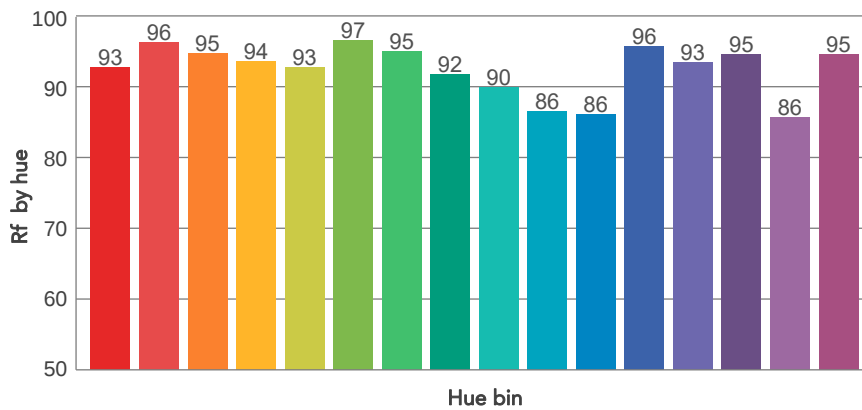
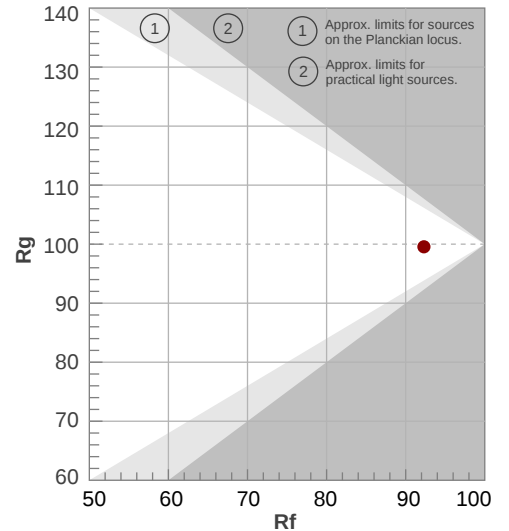
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5382 K	96,6	89,2	92,3	99,6	93,6	98	0,335	0,344	0,0030

TM30 DETAILS

Rf 92,3
Fidelity index Rf

Rg 99,6
Gammut index

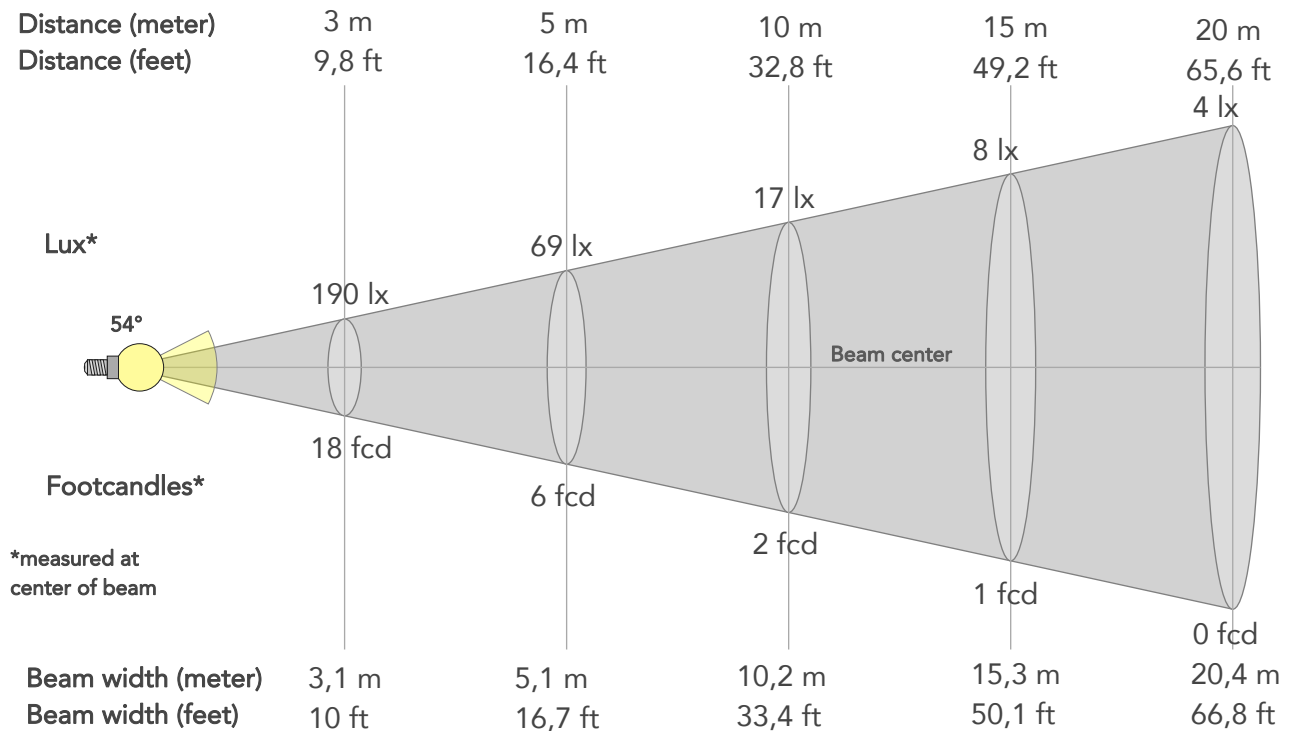
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	-2%	1%
2	96	-1%	1%
3	95	-1%	1%
4	94	-2%	0%
5	93	-4%	0%
6	97	-1%	0%
7	95	-3%	1%
8	92	-3%	4%
9	90	-2%	9%
10	86	0%	9%
11	86	4%	8%
12	96	3%	1%
13	93	4%	-2%
14	95	1%	-2%
15	86	6%	-9%
16	95	-1%	-2%



BEAM DETAILS



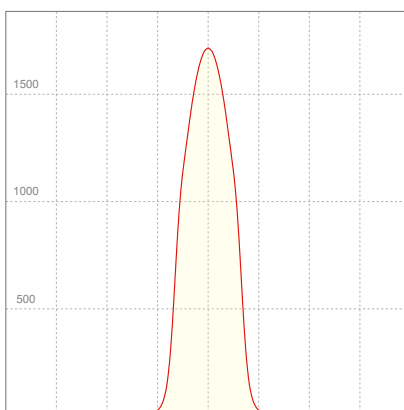
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
54°	72,2°	85,1°	99,9%	98,8%



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	1714lx	429lx	190lx	107lx	69lx	30lx	17lx	8lx	4lx	3lx	2lx	1lx	1lx
Footcand.	159fcd	40fcd	18fcd	10fcd	6fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2m	3,1m	4,1m	5,1m	7,6m	10,2m	15,3m	20,4m	25,5m	30,6m	40,7m	50,9m
Beam wid.	3,4ft	6,7ft	10ft	13,3ft	16,7ft	25,1ft	33,4ft	50,1ft	66,8ft	83,5ft	100,2ft	133,6ft	167ft

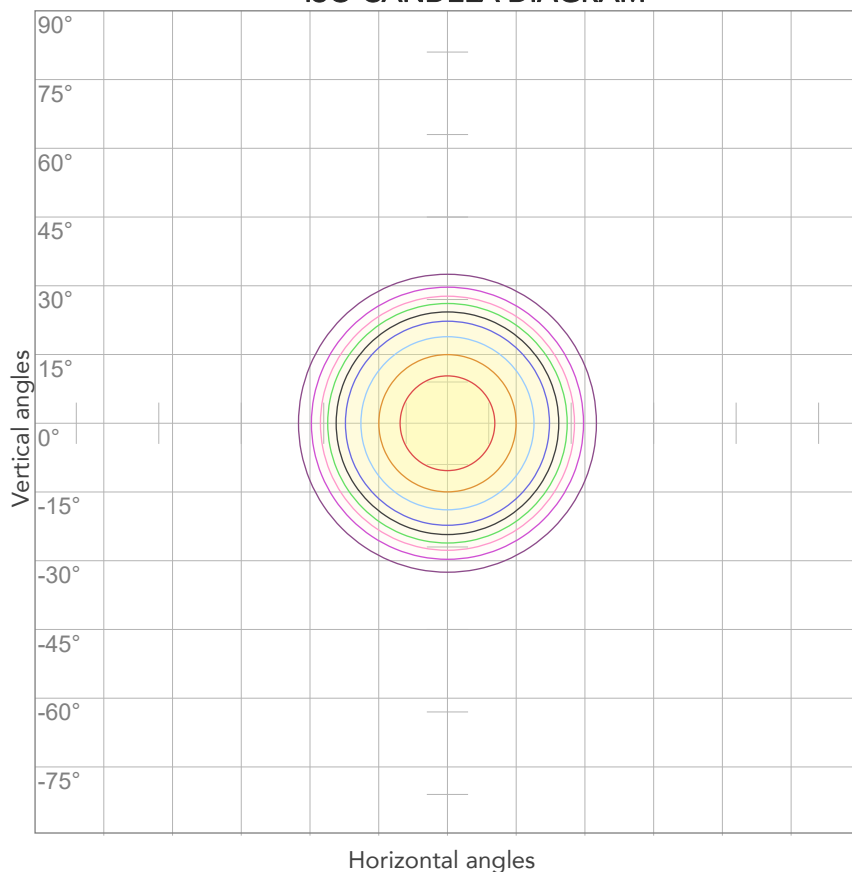
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
229V	0,151A	31,7W	37lm/W

ISO CANDELA DIAGRAM



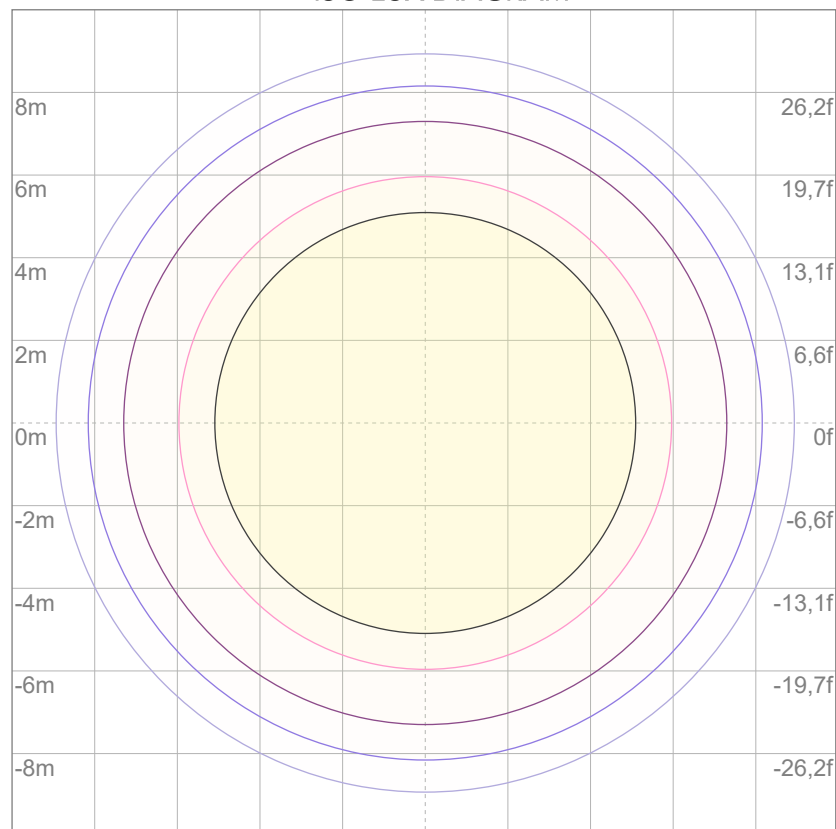
10%	171 cd
20%	343 cd
30%	514 cd
40%	686 cd
50%	857 cd
60%	1029 cd
70%	1200 cd
80%	1372 cd

Conditions:

Number of c-planes: 2

Candela at center: 1714 cd

ISO LUX DIAGRAM



3%	0,514 lx
5%	0,857 lx
10%	1,71 lx
30%	5,14 lx
50%	8,57 lx

Conditions:

Number of c-planes: 2

Lux at center: 17,1 lx

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



Total lumen output:

831 lm

Peak candela output:

4655 cd

Light quality:

CRI: 96,7

Color temperature:

5362 K

PRODUCT NAME:

ECLDISPLAYVW

MEASURAMENT CONDITIONS:

Beam angle:

Wash 2550 Min Zoom

Target:

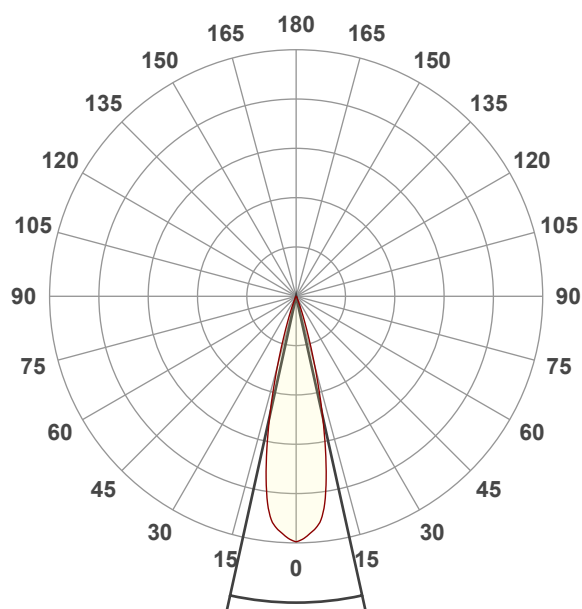
Cold White

Operator:

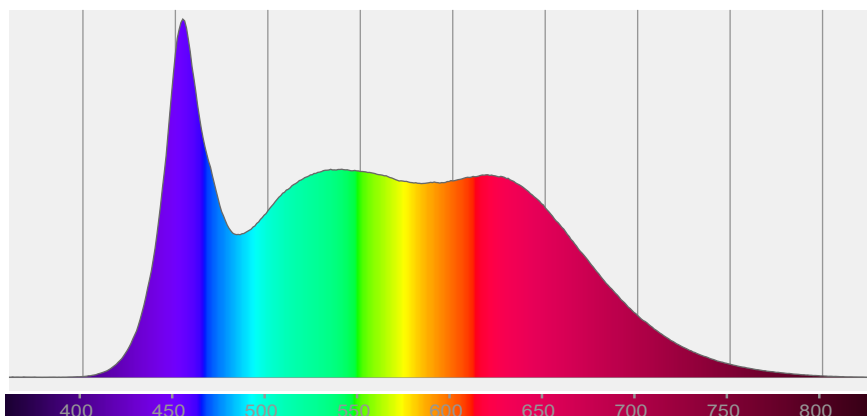
Paolo Carvone

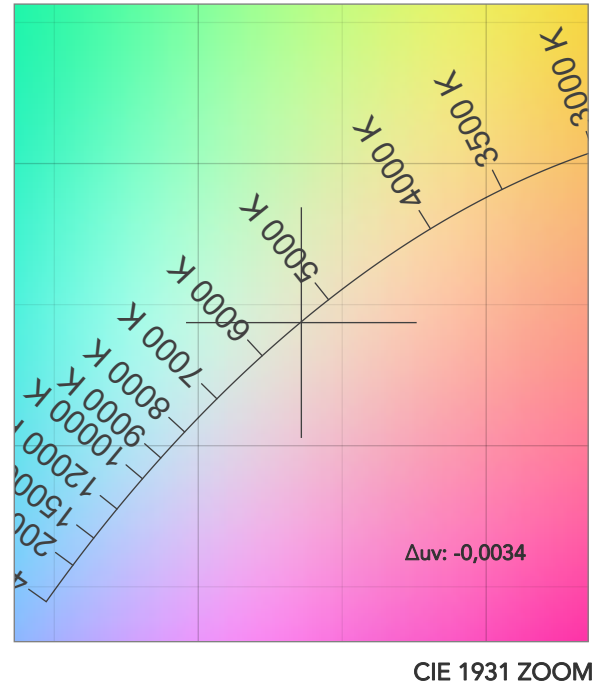
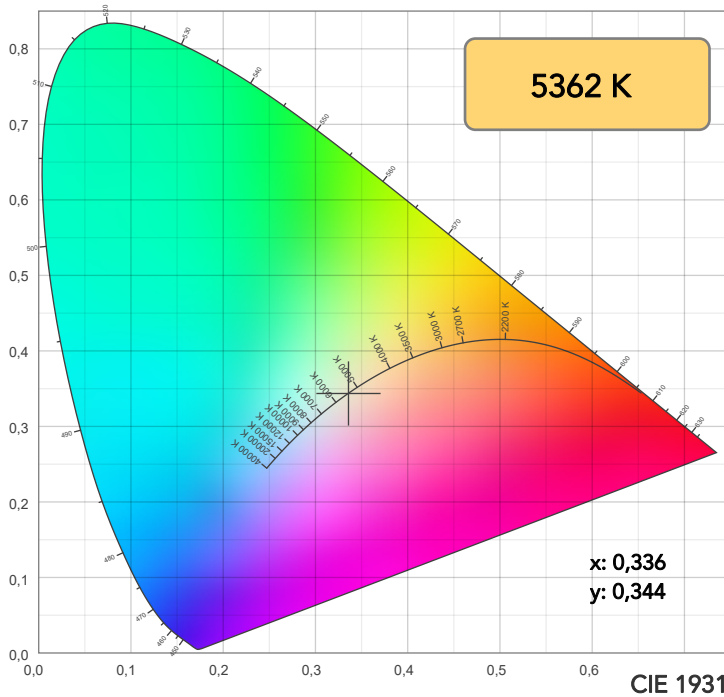
Date and time:

29/03/2023 11:57:06

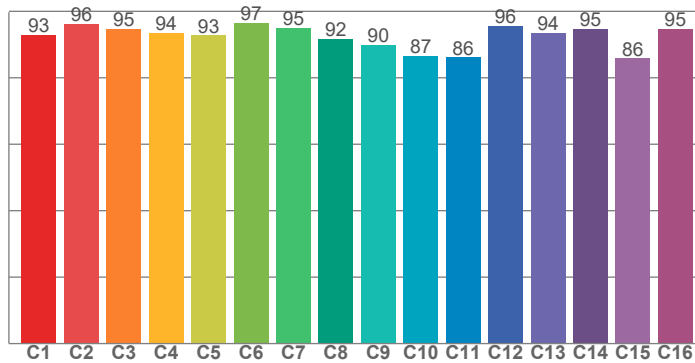


Spectra

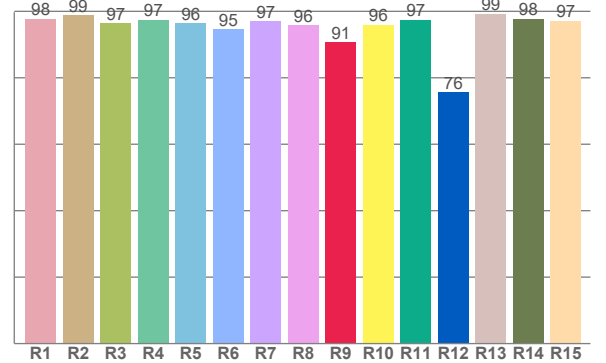




TM30: 92,3



CRI: 96,7 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97,7	98,7	96,5	97,5	96,3	94,5	96,9	95,7	90,6	95,9	97,4	75,7	99,3	97,7	97,1

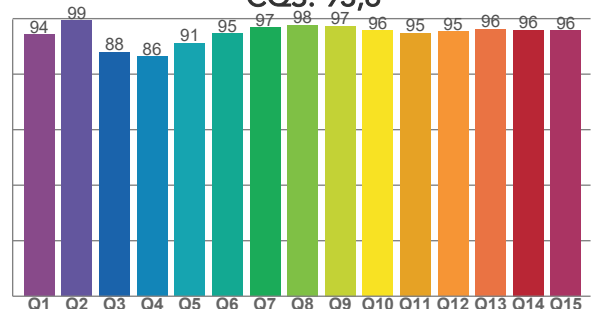
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,9	96,2	94,7	93,6	92,8	96,5	95,0	91,7	89,9	86,5	86,1	95,6	93,6	94,6	85,8	94,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,2	99,3	87,9	86,4	91,1	94,6	96,7	97,8	97,4	95,7	94,8	95,4	96,2	96,0	95,6

CQS: 93,6



COLOR PARAMETERS

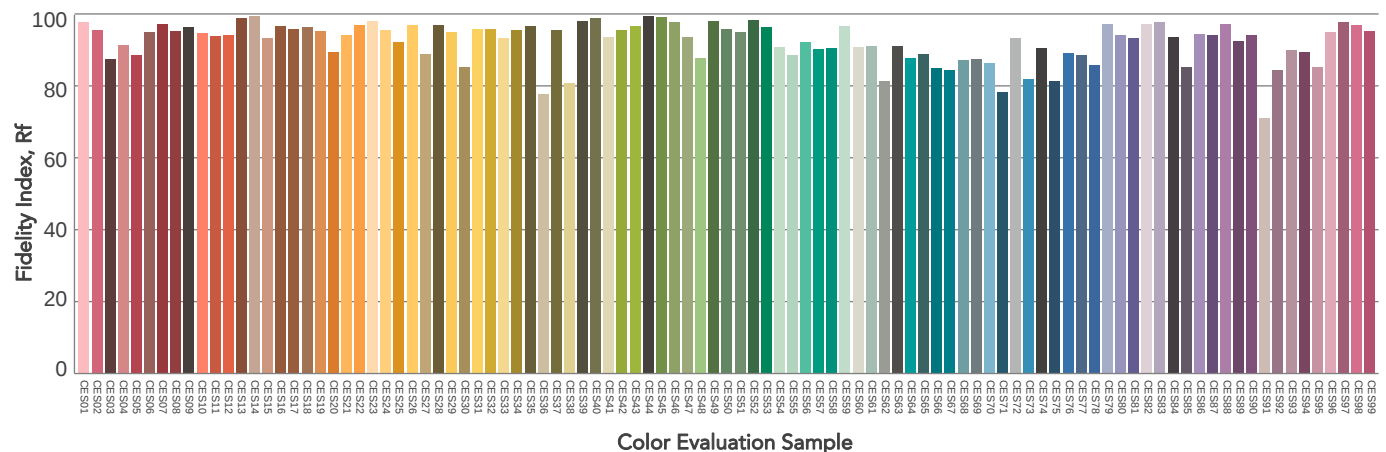
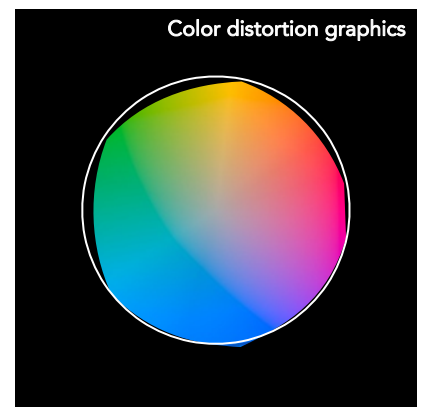
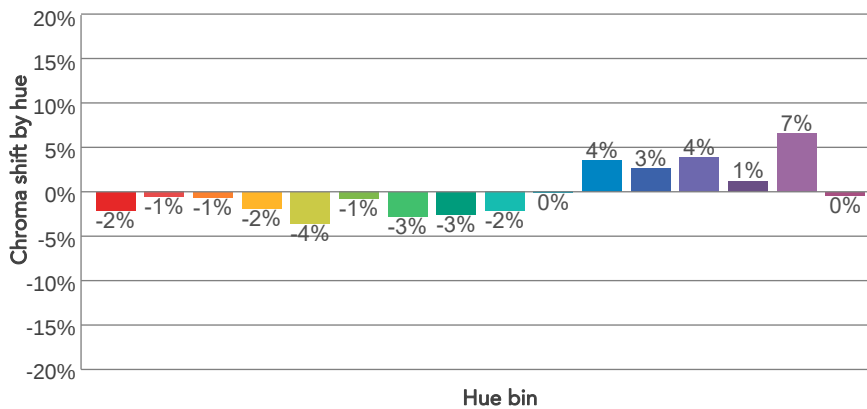
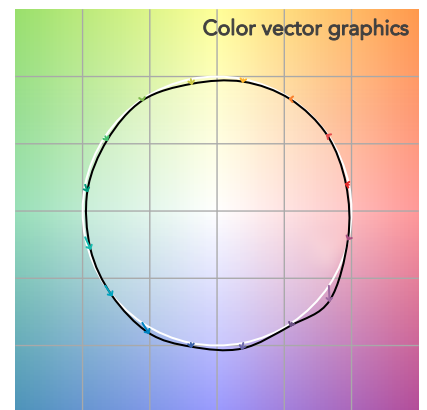
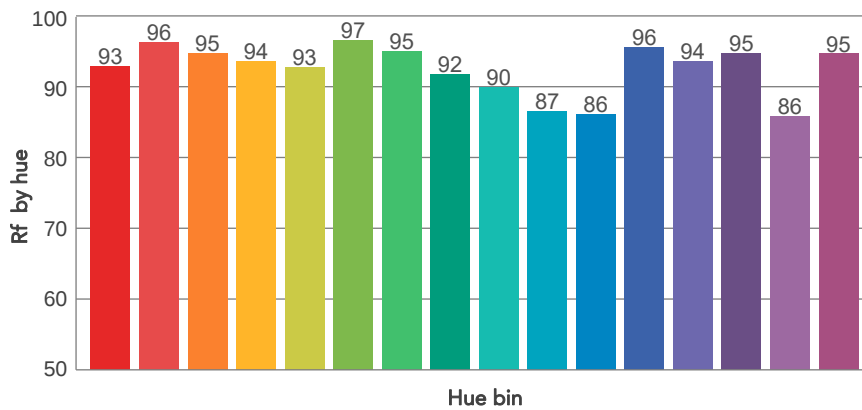
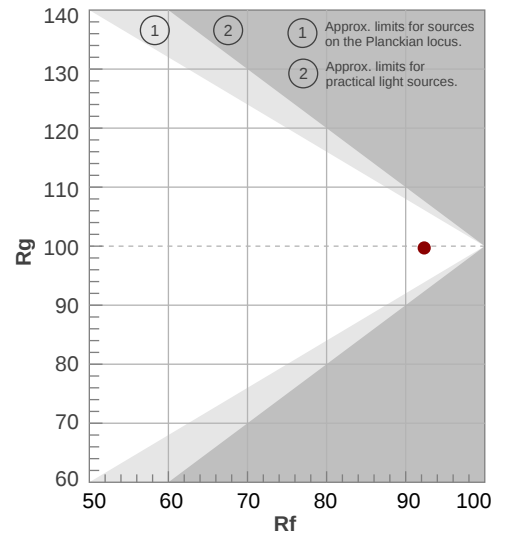
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5362 K	96,7	90,6	92,3	99,7	93,6	98	0,336	0,344	-0,0034

TM30 DETAILS

Rf 92,3
Fidelity index Rf

Rg 99,7
Gammut index

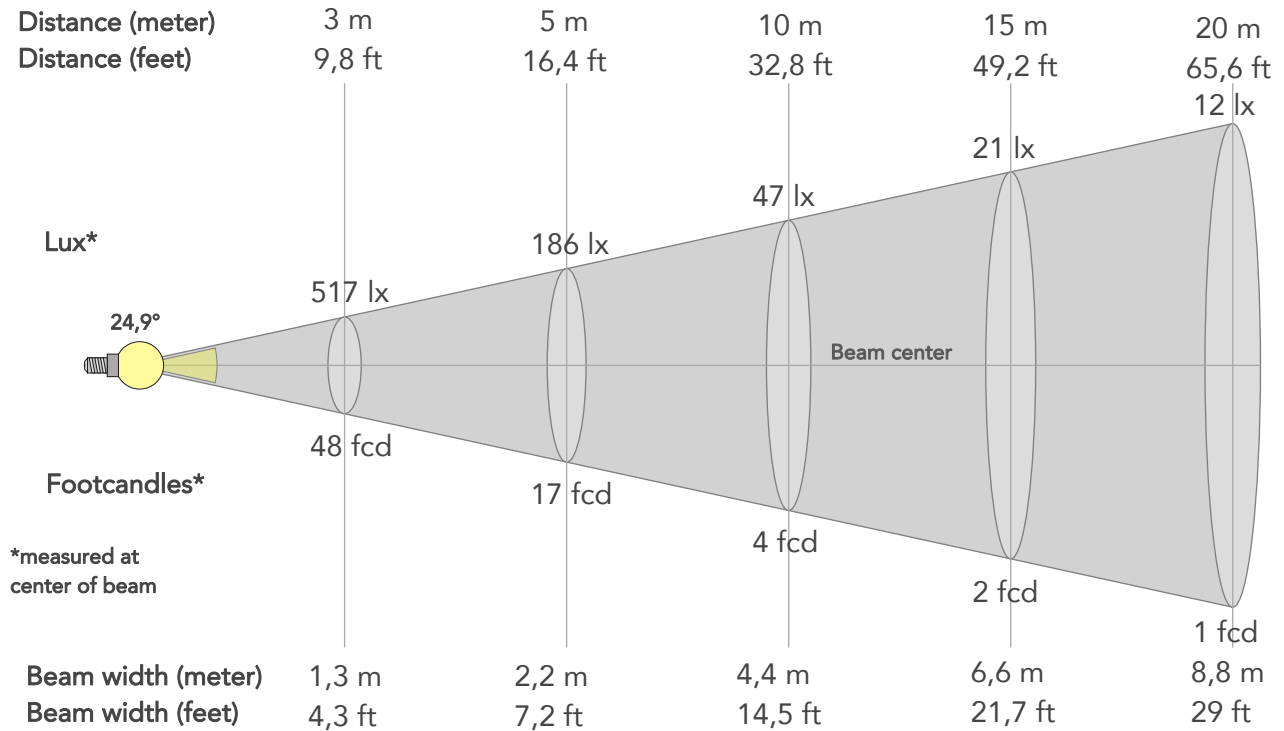
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	-2%	1%
2	96	-1%	1%
3	95	-1%	1%
4	94	-2%	0%
5	93	-4%	0%
6	97	-1%	0%
7	95	-3%	1%
8	92	-3%	4%
9	90	-2%	9%
10	87	0%	9%
11	86	4%	8%
12	96	3%	1%
13	94	4%	-2%
14	95	1%	-2%
15	86	7%	-9%
16	95	0%	-2%



BEAM DETAILS



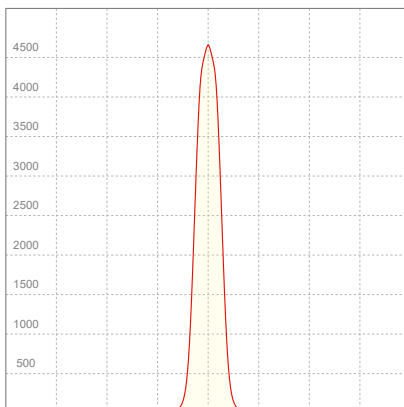
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
24,9°	37,7°	47,1°	100,0%	99,8%



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	4655lx	1164lx	517lx	291lx	186lx	83lx	47lx	21lx	12lx	7lx	5lx	3lx	2lx
Footcand.	432fcd	108fcd	48fcd	27fcd	17fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,4m	0,9m	1,3m	1,8m	2,2m	3,3m	4,4m	6,6m	8,8m	11m	13,2m	17,7m	22,1m
Beam wid.	1,5ft	2,9ft	4,3ft	5,8ft	7,2ft	10,9ft	14,5ft	21,7ft	29ft	36,2ft	43,4ft	57,9ft	72,4ft

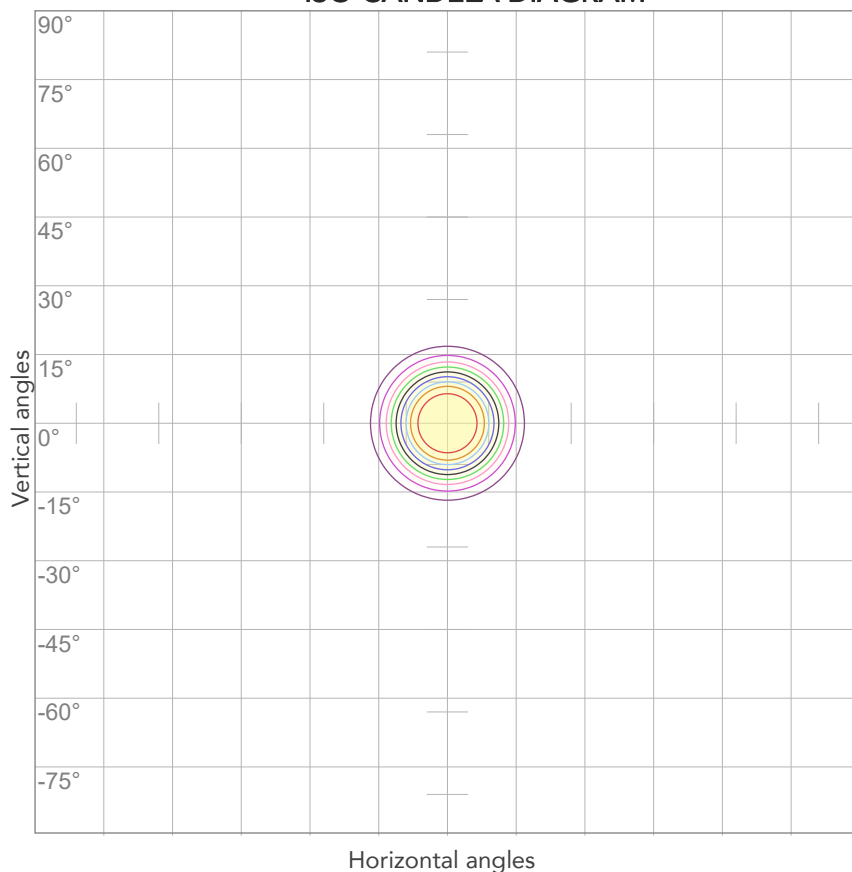
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
228V	0,152A	31,7W	26lm/W

ISO CANDELA DIAGRAM



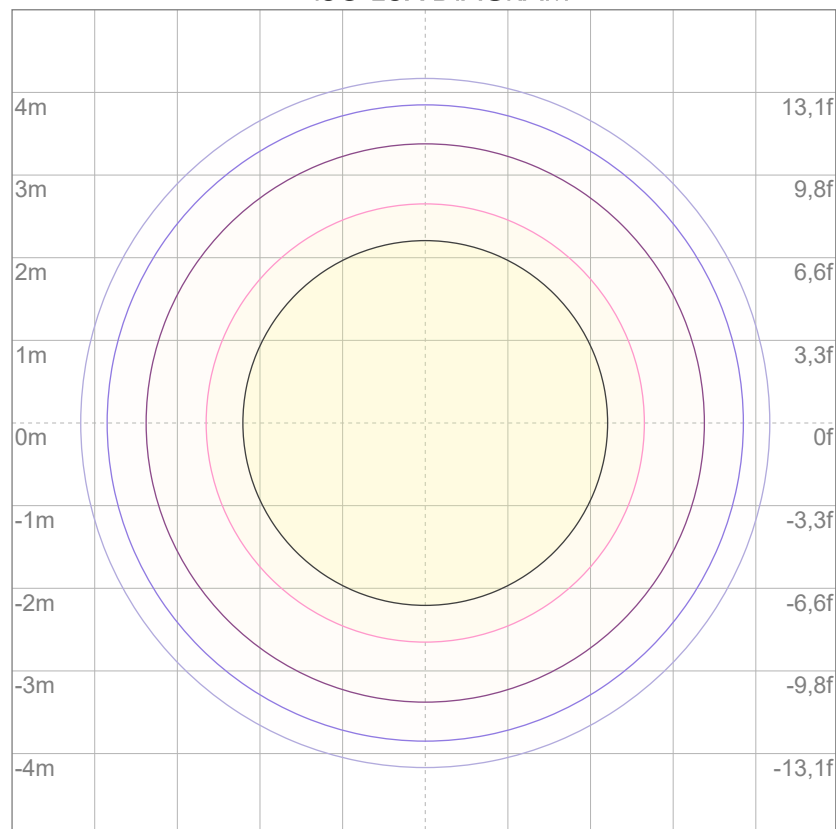
10%	465 cd
20%	931 cd
30%	1396 cd
40%	1862 cd
50%	2327 cd
60%	2793 cd
70%	3258 cd
80%	3724 cd

Conditions:

Number of c-planes: 2

Candela at center: 4655 cd

ISO LUX DIAGRAM



3%	1,40 lx
5%	2,33 lx
10%	4,65 lx
30%	14,0 lx
50%	23,3 lx

Conditions:

Number of c-planes: 2

Lux at center: 46,5 lx

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