PROLiGHTS

Photometric Test Report

ECLDISPLAYCASVW

ZOOMABLE PROFILE LENS 20-40°

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:

1063 lm

Peak candela output:

3702 cd

Light quality:

CRI: 97,4

Color temperature:

4049 K

PRODUCT NAME:

ECLDISPLAYVW

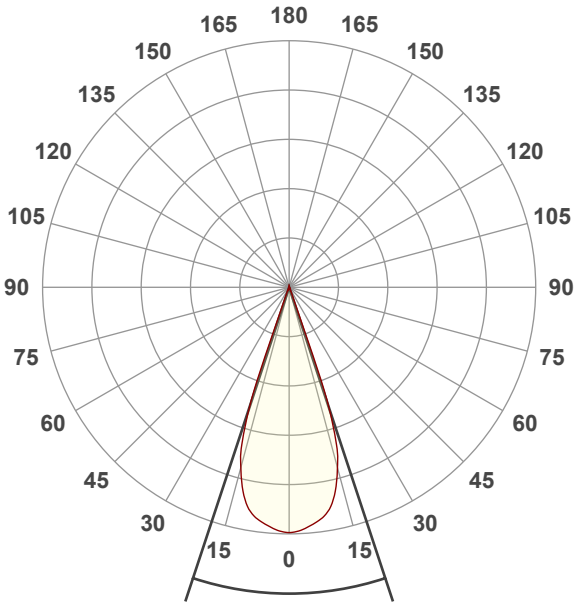
MEASURAMENT CONDITIONS:

Beam angle:
Profile 2040 Max Zoom

Target:
Full On

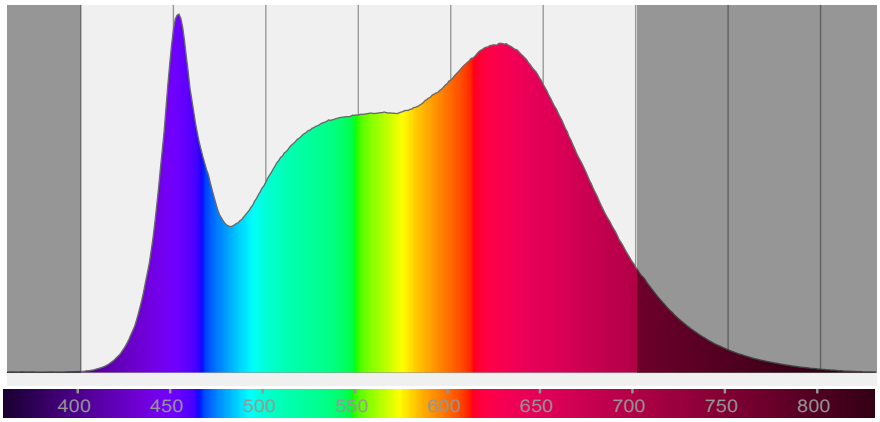
Operator:
Paolo Carvone

Date and time:
29/03/2023 10:47:18



Beam angle 50%: 36,6°
Field angle 10%: 41°
Cut off angle 2.5%: 43,5°

Spectra



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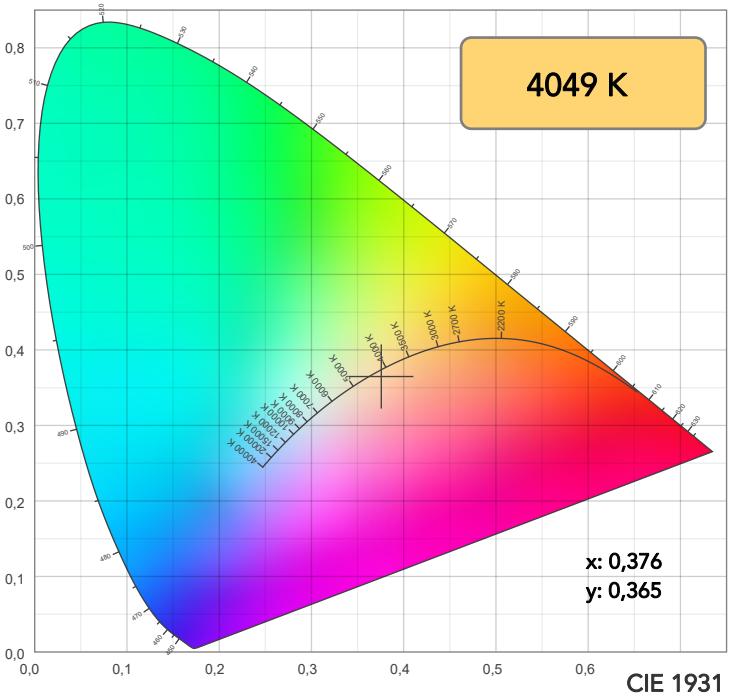
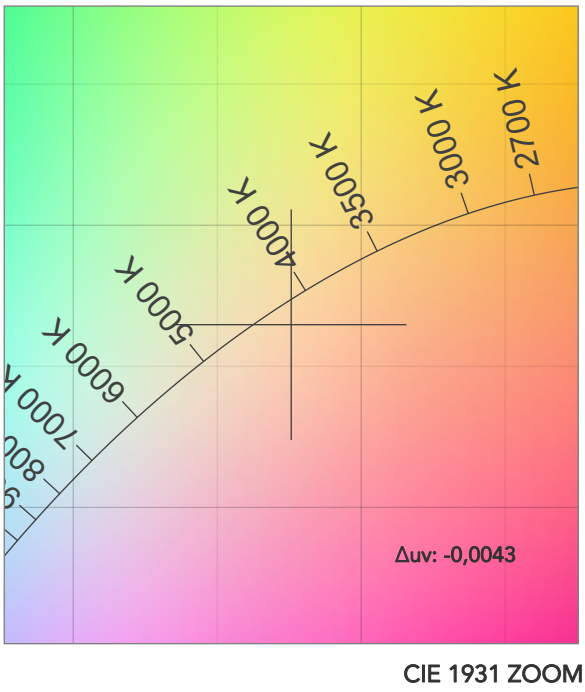
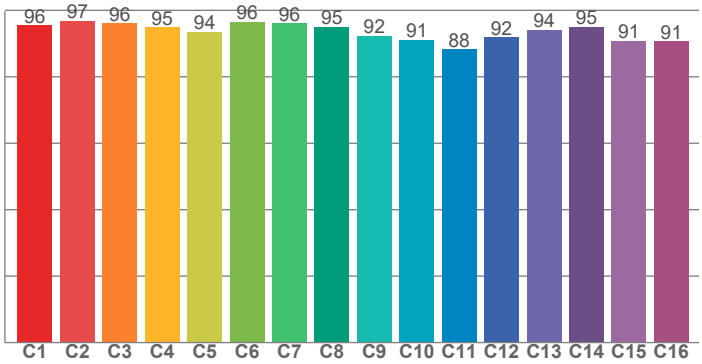
COLOR DETAILS

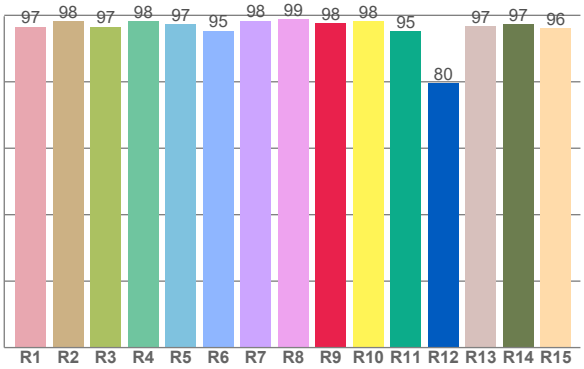




TM30: 93,6



CRI: 97,4 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
96,5	98,2	96,6	98,1	97,4	95,4	98,4	98,9	97,6	98,3	95,2	79,6	96,8	97,2	96,0

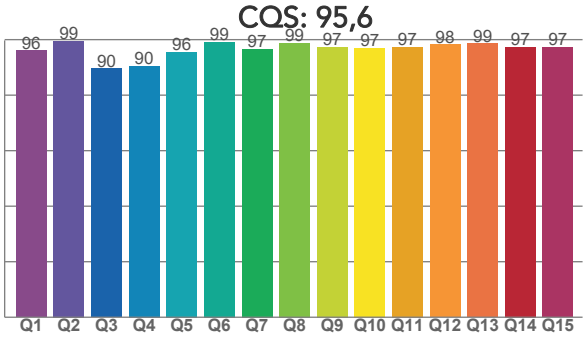
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,0	99,5	89,5	90,4	95,6	99,1	96,6	98,8	97,4	96,9	97,3	98,2	98,6	97,3	97,2

CQS: 95,6



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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4049 K	97,4	97,6	93,6	101,6	95,6	98	0,376	0,365	-0,0043

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TM30 DETAILS

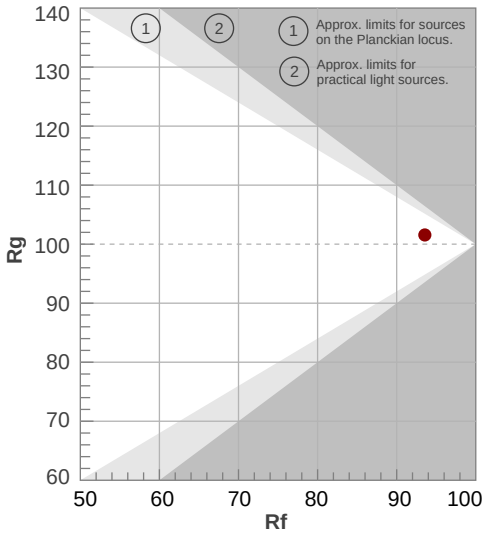
Rf 93,6

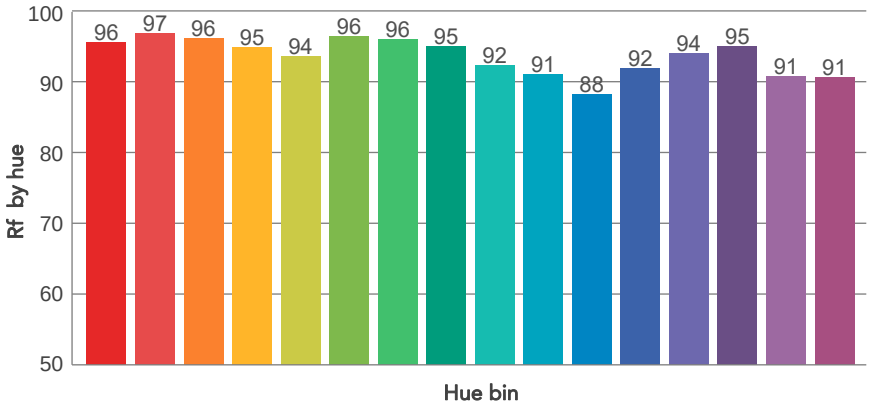
Fidelity index Rf

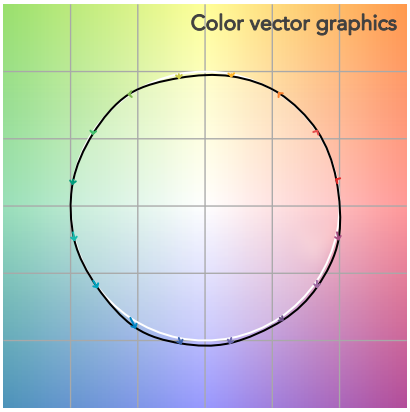
Rg 101,6

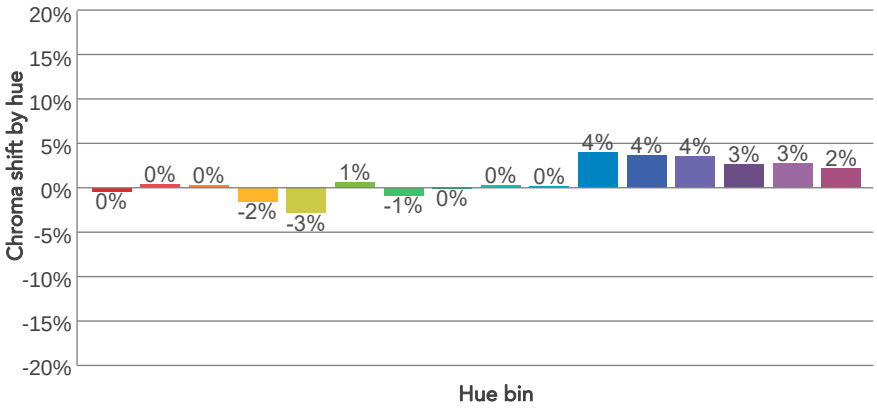
Gammut index

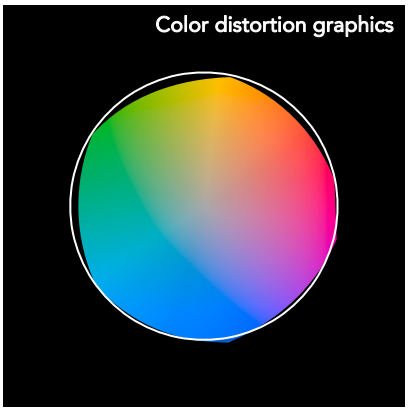
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	96	0%	0%
2	97	0%	0%
3	96	0%	1%
4	95	-2%	0%
5	94	-3%	0%
6	96	1%	1%
7	96	-1%	2%
8	95	0%	3%
9	92	0%	6%
10	91	0%	6%
11	88	4%	7%
12	92	4%	2%
13	94	4%	-2%
14	95	3%	1%
15	91	3%	-4%
16	91	2%	-5%

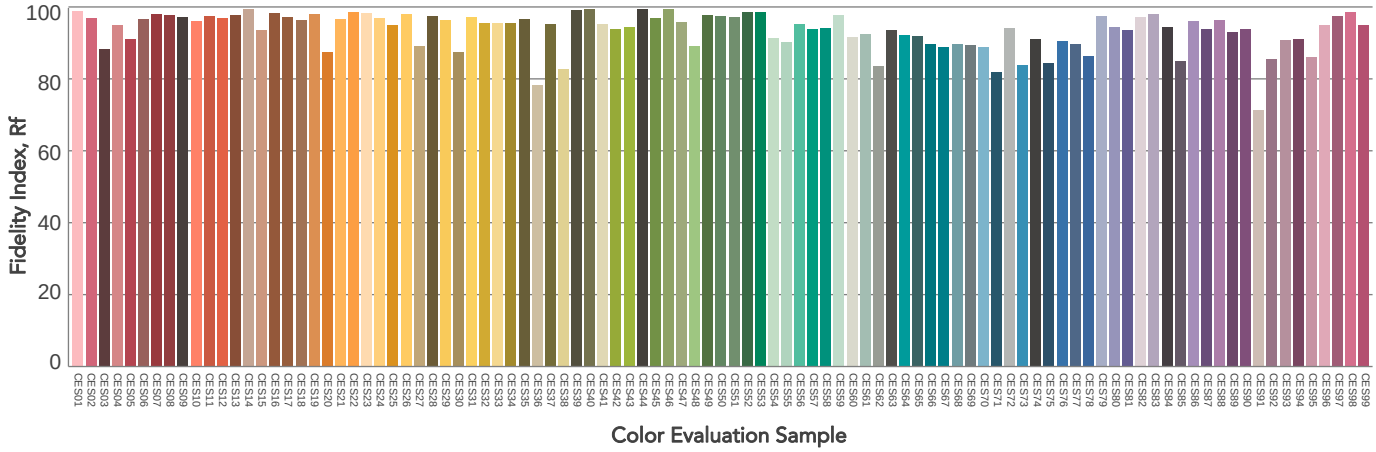












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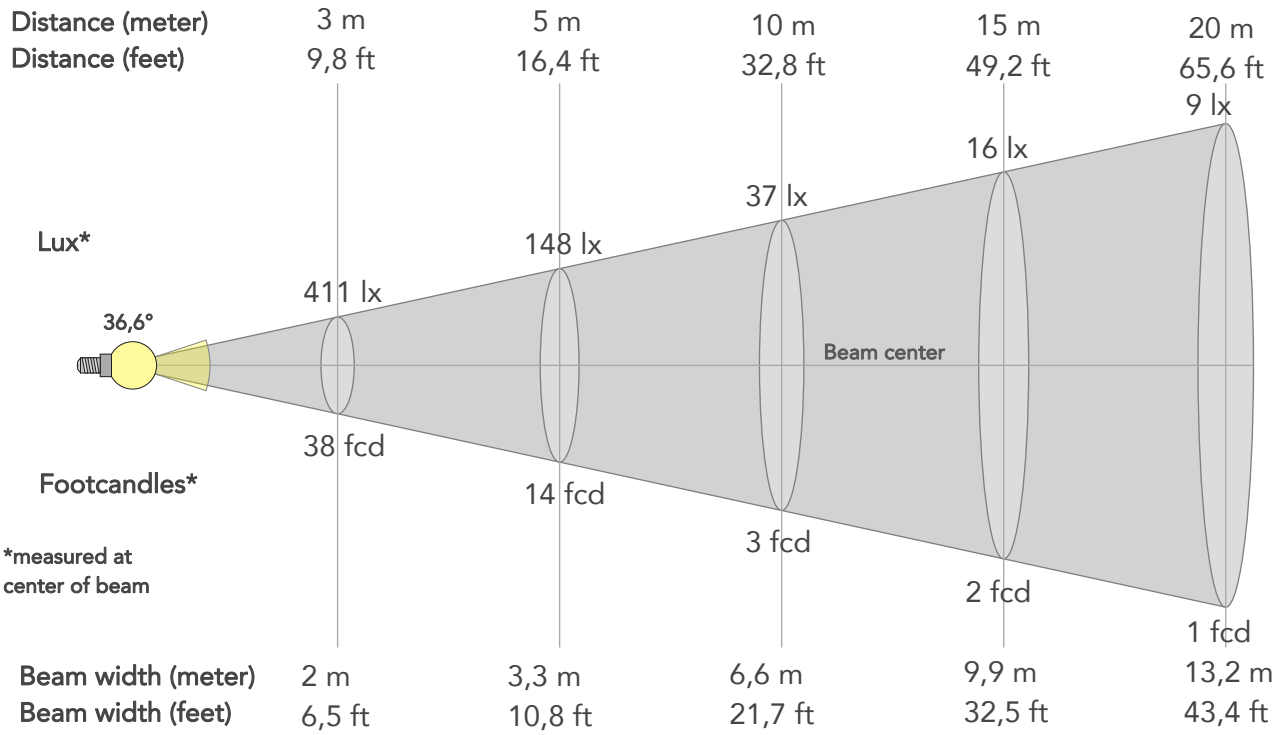
BEAM DETAILS

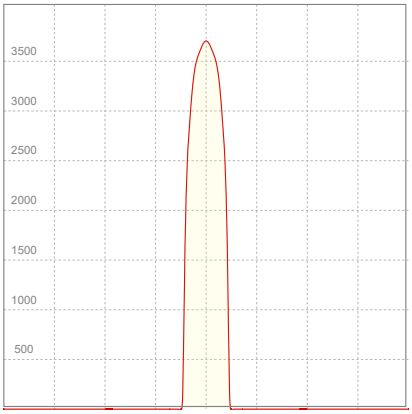
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
36,6°	41°	43,5°	100,0%	100,0%



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	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.	0,7m	1,3m	2m	2,6m	3,3m	5m	6,6m	9,9m	13,2m	16,5m	19,8m	26,4m	33,1m
Beam wid.	2,2ft	4,4ft	6,5ft	8,7ft	10,8ft	16,3ft	21,7ft	32,5ft	43,4ft	54,2ft	65ft	86,7ft	108,4ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,156A	32,4W	33lm/W

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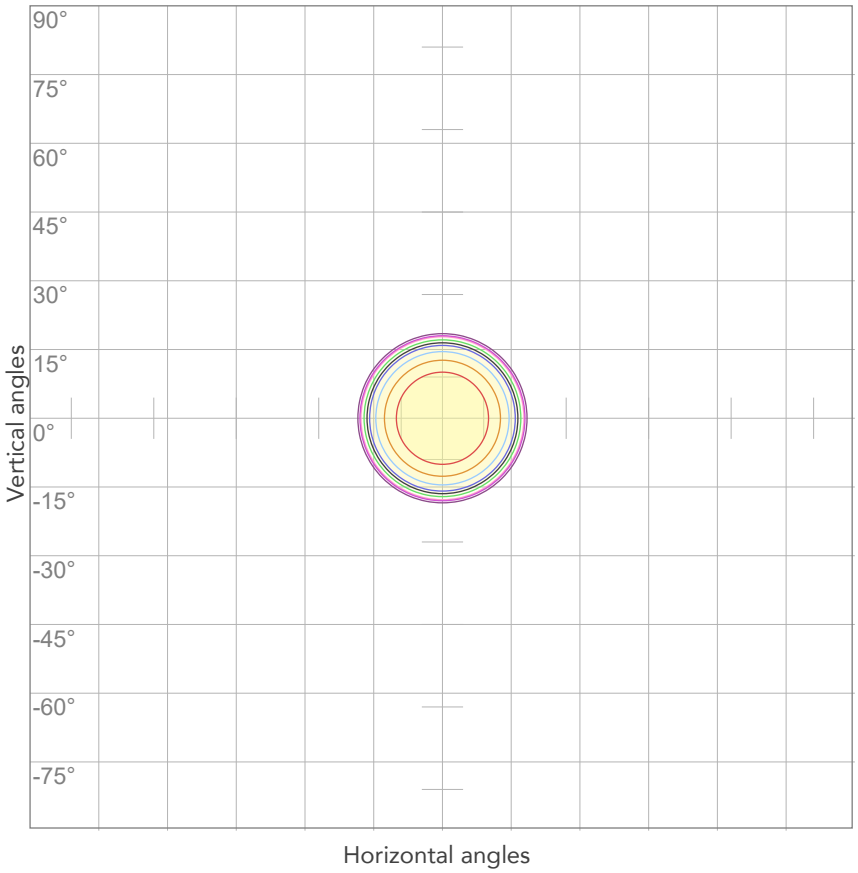
ISO DIAGRAMS

ISO CANDELA DIAGRAM



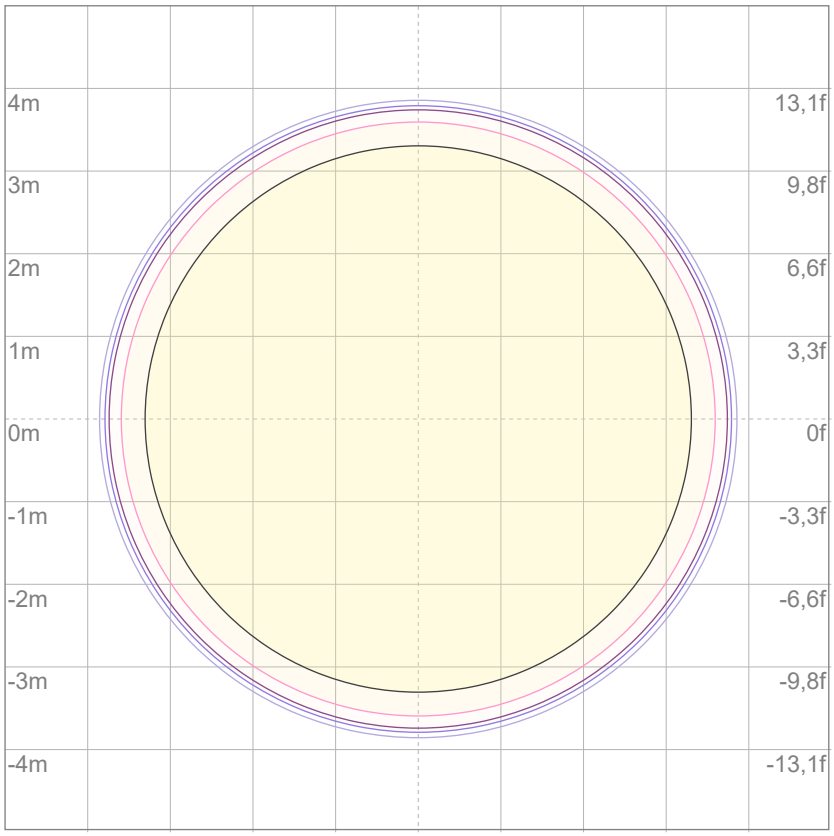
10%	370 cd
20%	740 cd
30%	1110 cd
40%	1481 cd
50%	1851 cd
60%	2221 cd
70%	2591 cd
80%	2961 cd

Conditions:

Number of c-planes: 2

Candela at center: 3702 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

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.

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Total lumen output:

913 lm

Peak candela output:

13645 cd

Light quality:

CRI: 97,5

Color temperature:

3932 K

PRODUCT NAME:

ECLDISPLAYVW

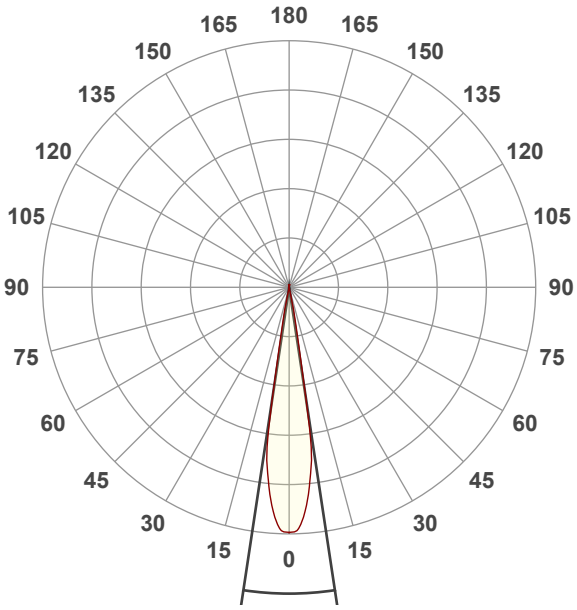
MEASURAMENT CONDITIONS:

Beam angle:
Profile 2040 Min Zoom

Target:
Full On

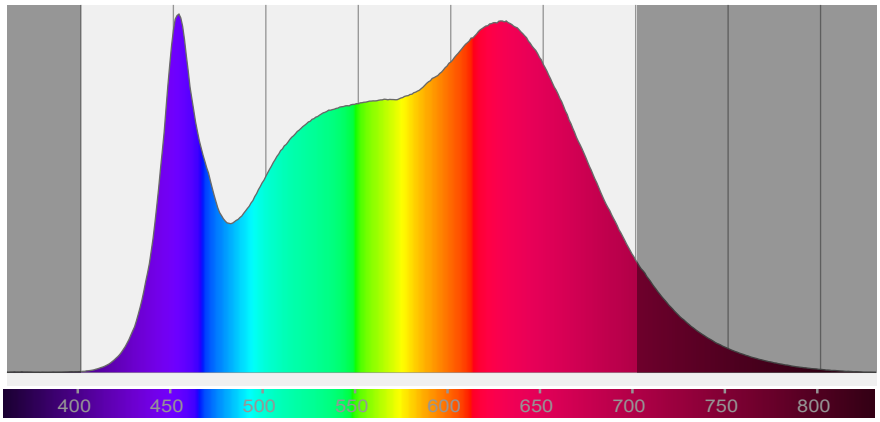
Operator:
Paolo Carvone

Date and time:
29/03/2023 10:40:53

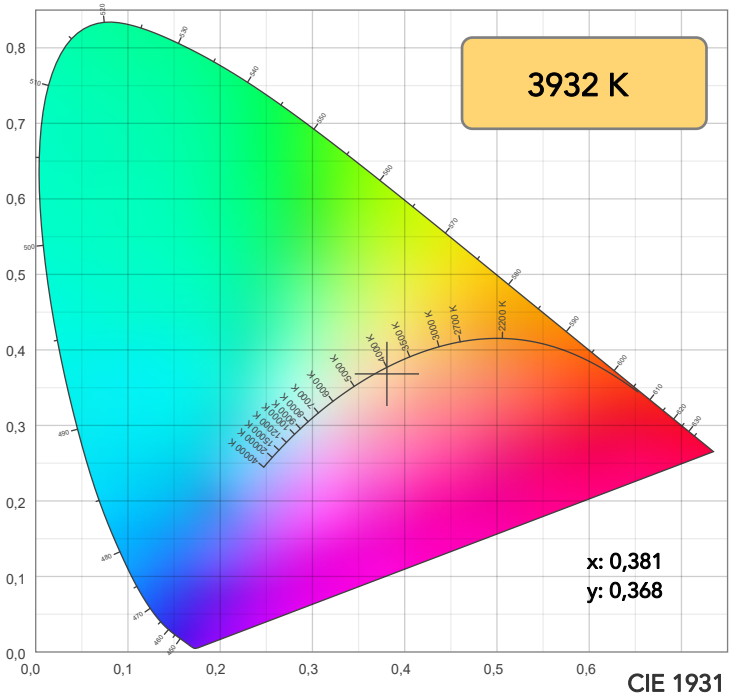


Beam angle 50%: 17,2°
Field angle 10%: 21,7°
Cut off angle 2.5%: 23,5°

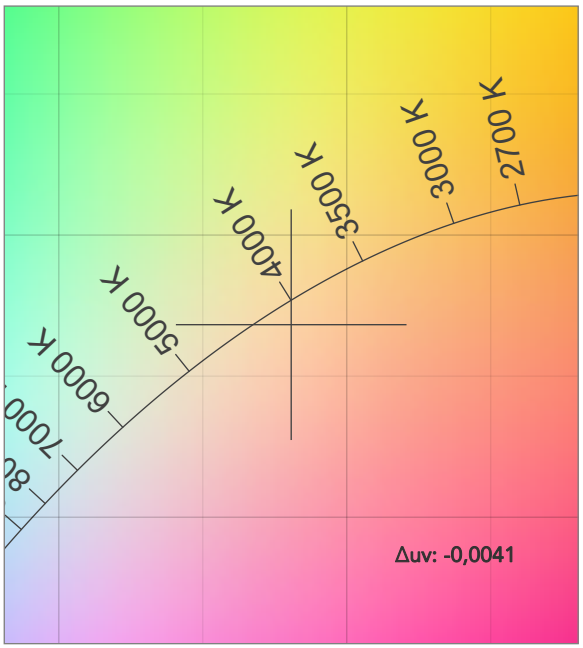
Spectra



COLOR DETAILS

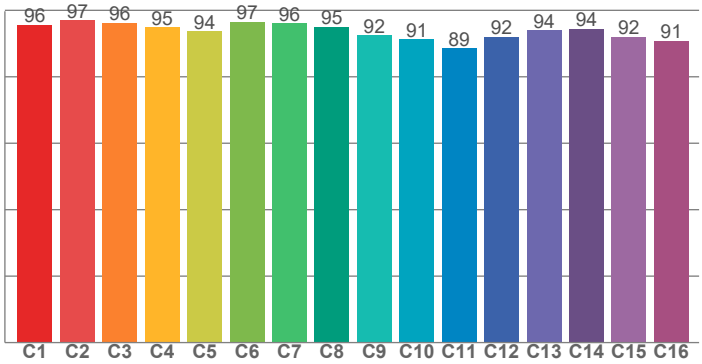


CIE 1931

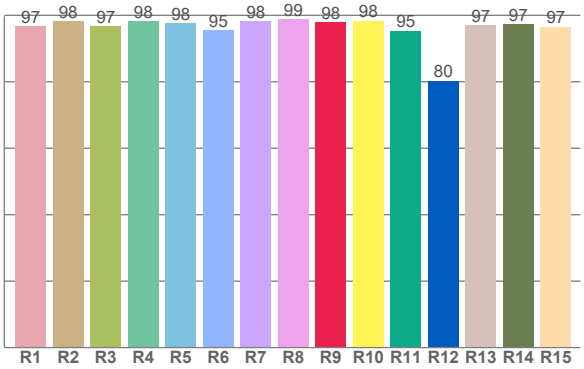


CIE 1931 ZOOM

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
96,8	98,3	96,7	98,2	97,6	95,5	98,2	98,9	97,9	98,4	95,4	80,3	97,0	97,3	96,5

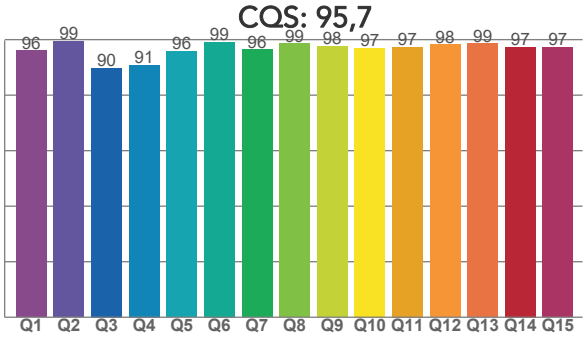
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,6	97,0	96,2	94,9	93,6	96,5	96,1	95,1	92,5	91,3	88,5	92,0	93,9	94,4	92,0	90,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,1	99,4	89,8	90,8	95,8	99,1	96,4	98,6	97,6	97,0	97,4	98,2	98,5	97,3	97,2

CQS: 95,7



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3932 K	97,5	97,9	93,7	101,6	95,7	98	0,381	0,368	-0,0041

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TM30 DETAILS

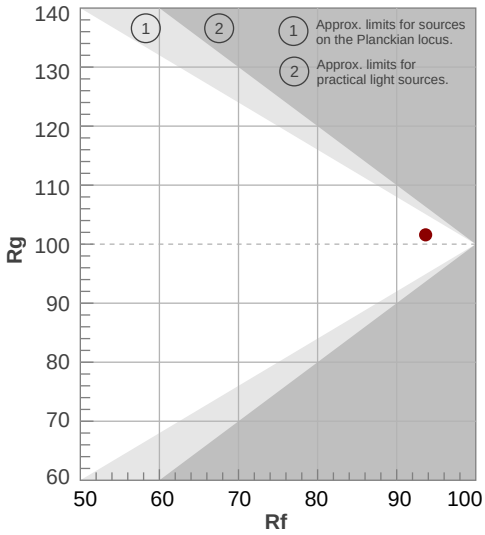
Rf 93,7

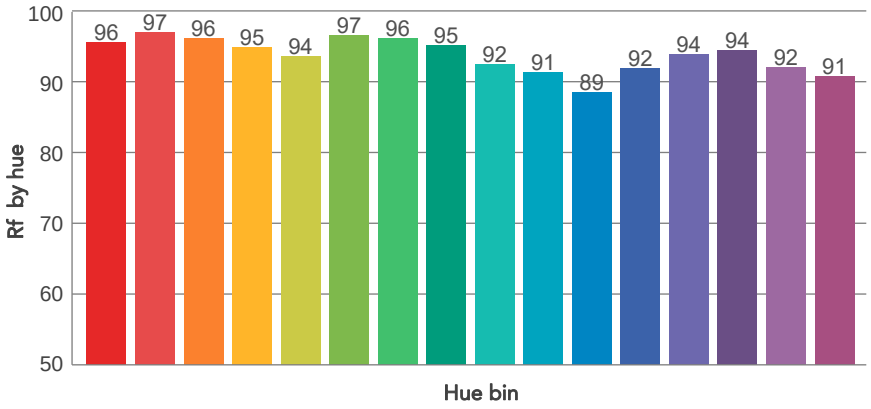
Fidelity index Rf

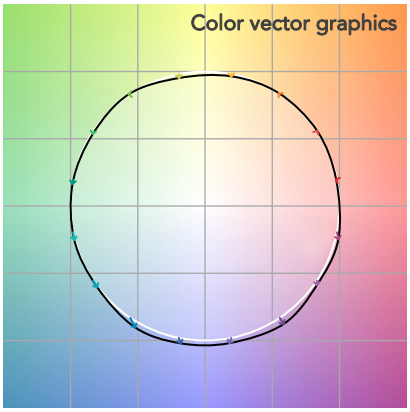
Rg 101,6

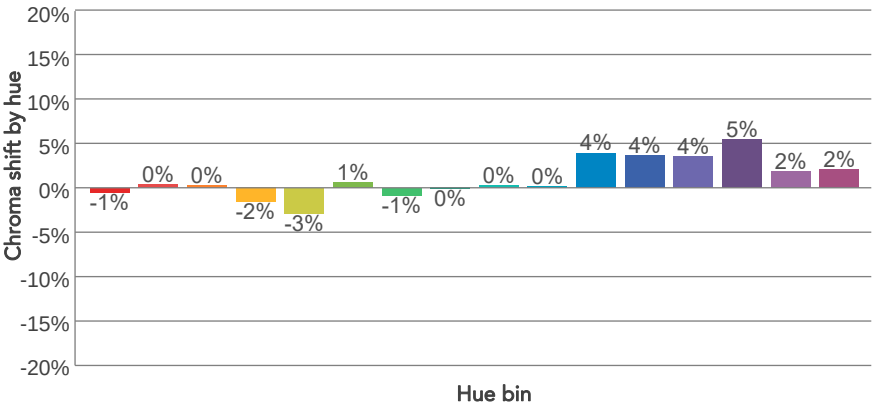
Gammut index

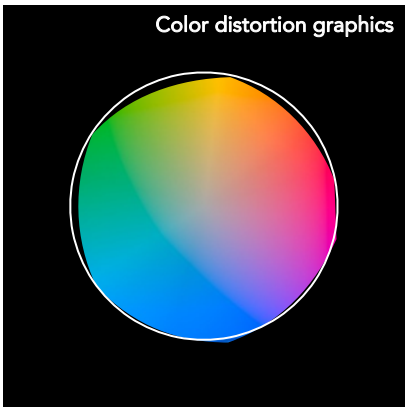
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	96	-1%	0%
2	97	0%	0%
3	96	0%	1%
4	95	-2%	0%
5	94	-3%	0%
6	97	1%	1%
7	96	-1%	2%
8	95	0%	3%
9	92	0%	6%
10	91	0%	6%
11	89	4%	7%
12	92	4%	2%
13	94	4%	-2%
14	94	5%	0%
15	92	2%	-2%
16	91	2%	-5%

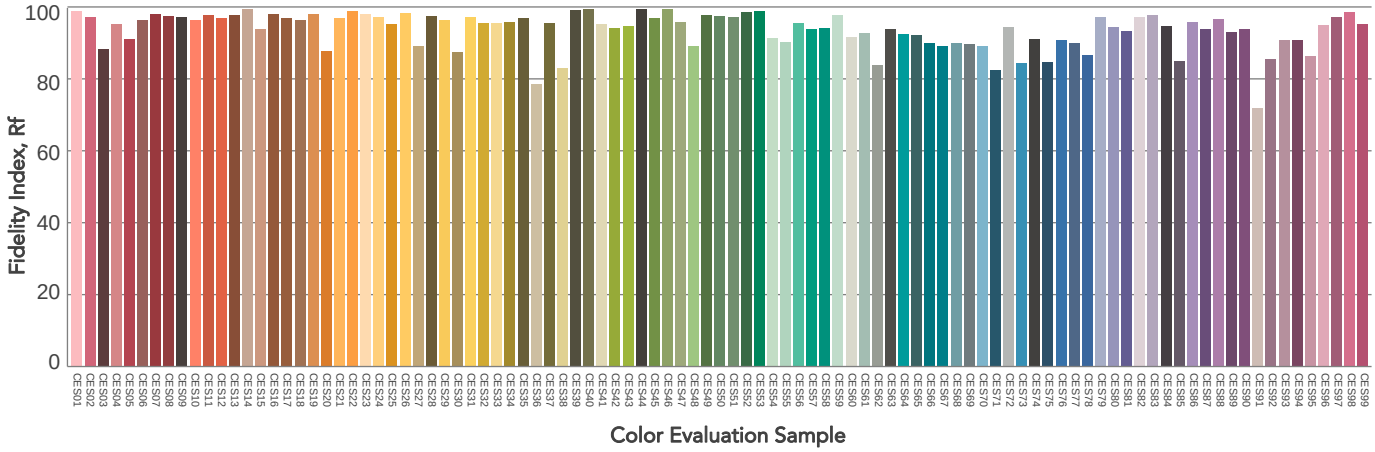












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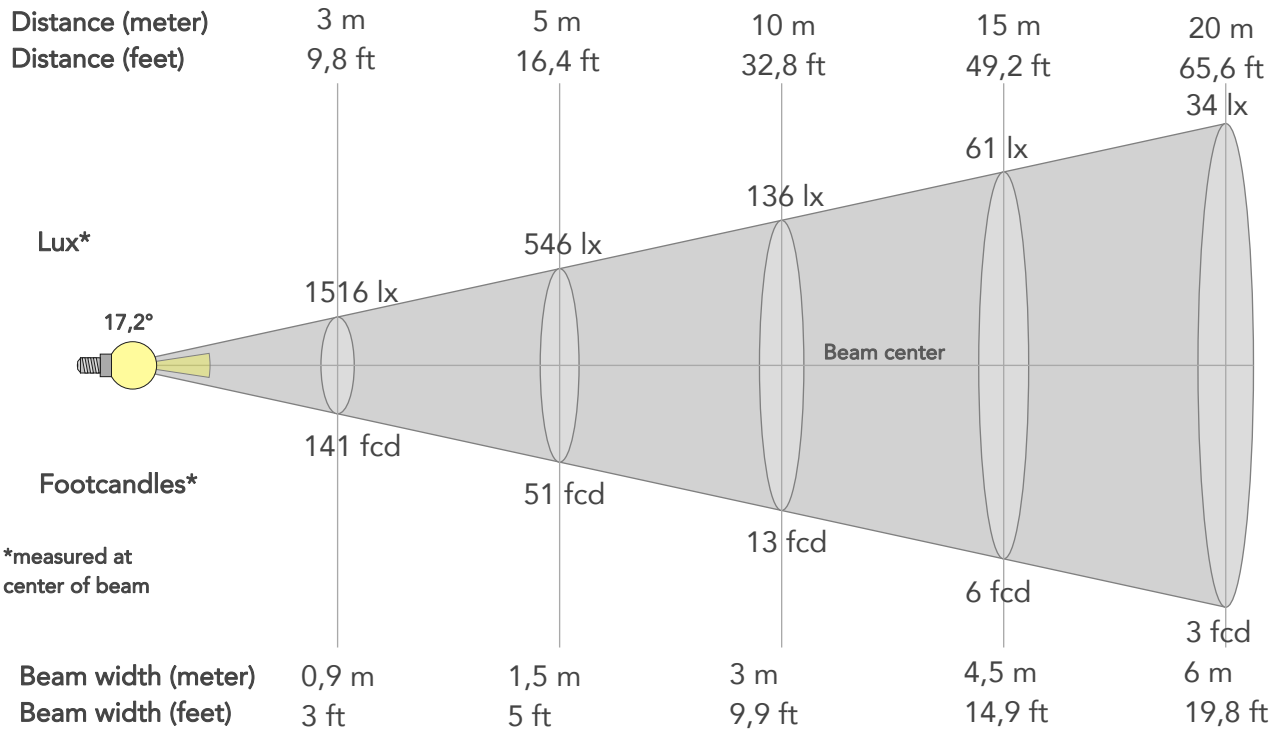
BEAM DETAILS

Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17,2°	21,7°	23,5°	100,0%	100,0%



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	13645lx	3411lx	1516lx	853lx	546lx	243lx	136lx	61lx	34lx	22lx	15lx	9lx	5lx
Footcand.	1268fcd	317fcd	141fcd	79fcd	51fcd	23fcd	13fcd	6fcd	3fcd	2fcd	1fcd	1fcd	1fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,5m	2,3m	3m	4,5m	6m	7,6m	9,1m	12,1m	15,1m
Beam wid.	1ft	2ft	3ft	4ft	5ft	7,4ft	9,9ft	14,9ft	19,8ft	24,8ft	29,7ft	39,6ft	49,5ft

LINEAR DISTRIBUTION DIAGRAM

ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,155A	32,3W	28lm/W

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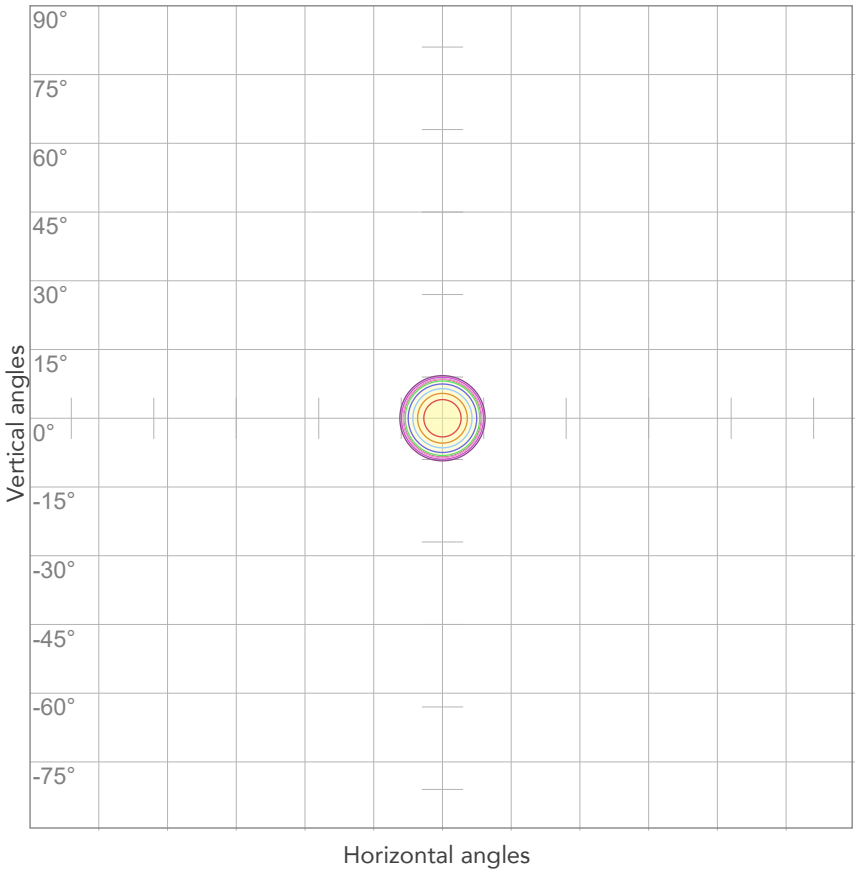
ISO DIAGRAMS

ISO CANDELA DIAGRAM



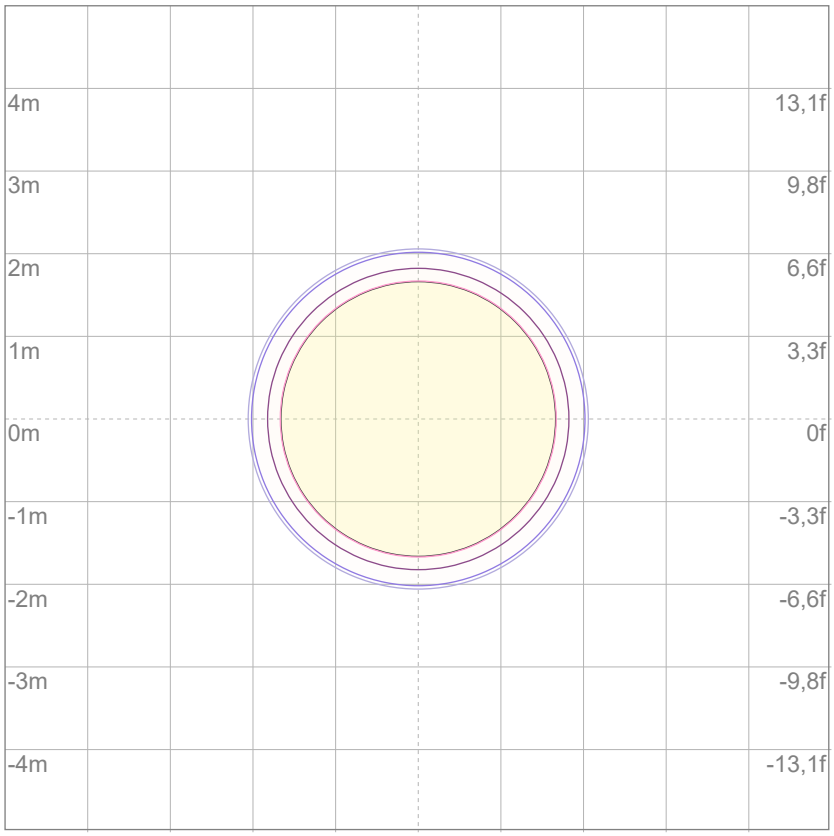
10%	1364 cd
20%	2729 cd
30%	4093 cd
40%	5458 cd
50%	6822 cd
60%	8187 cd
70%	9551 cd
80%	10916 cd

Conditions:

Number of c-planes: 2

Candela at center: 13645 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	4,09 lx
5%	6,82 lx
10%	13,6 lx
30%	40,9 lx
50%	68,2 lx

Conditions:

Number of c-planes: 2

Lux at center: 136 lx

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

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Total lumen output:

833 lm

Peak candela output:

2903 cd

Light quality:

CRI: 96,0

Color temperature:

2779 K

PRODUCT NAME:

ECLDISPLAYVW

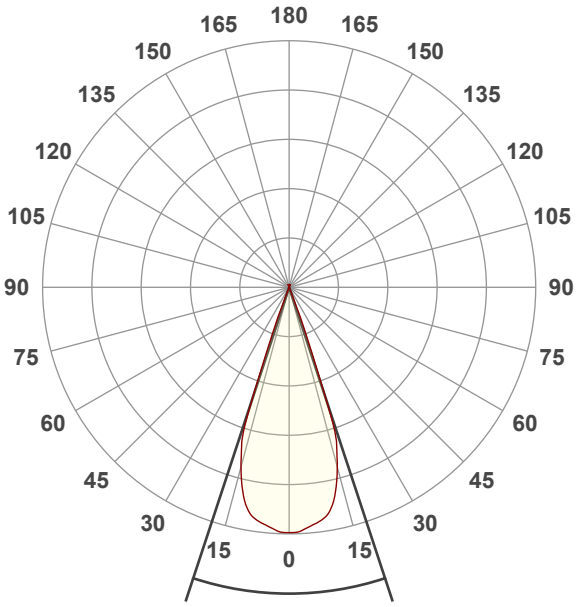
MEASURAMENT CONDITIONS:

Beam angle:
Profile 2040 Max Zoom

Target:
Warm White

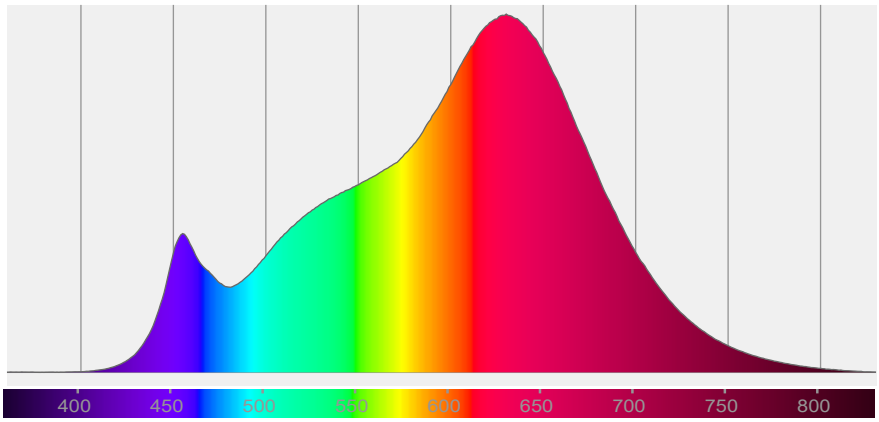
Operator:
Paolo Carvone

Date and time:
29/03/2023 10:52:07

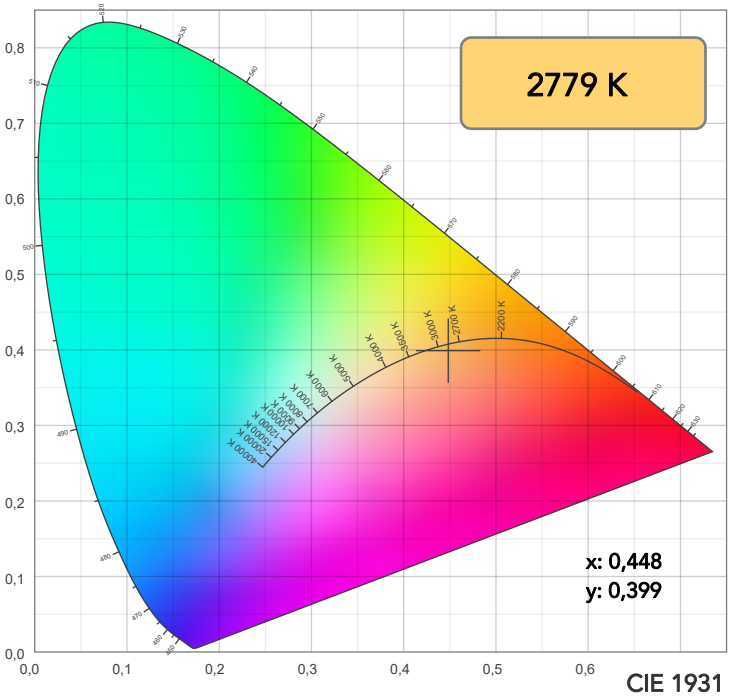


Beam angle 50%: 36,5°
Field angle 10%: 41,6°
Cut off angle 2.5%: 43,2°

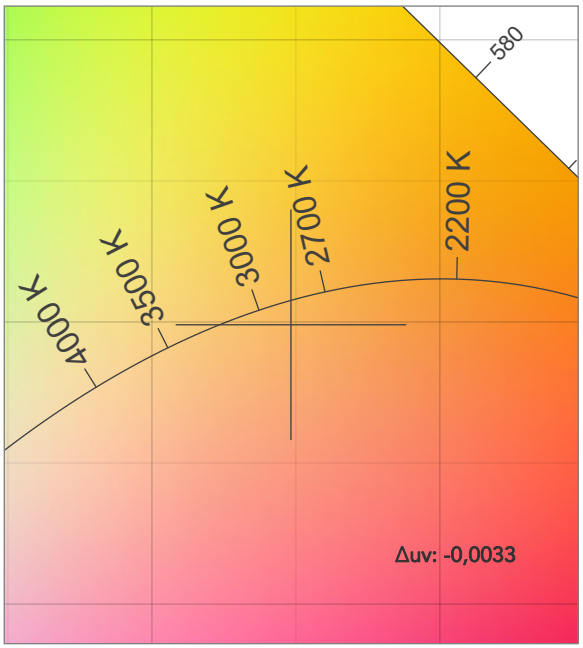
Spectra



COLOR DETAILS

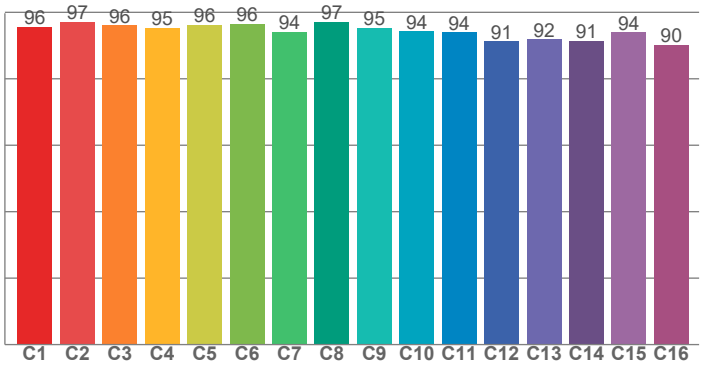


CIE 1931

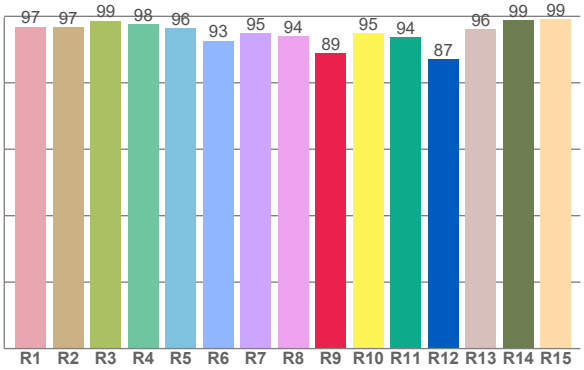


CIE 1931 ZOOM

TM30: 94,6



CRI: 96,0 (R1-R8)



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

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

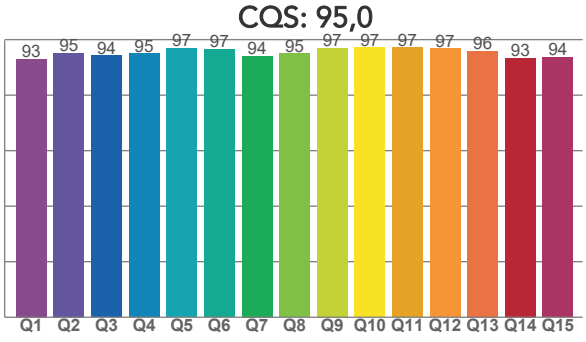
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

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

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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2779 K	96,0	88,8	94,6	101,3	95,0	96	0,448	0,399	-0,0033

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TM30 DETAILS

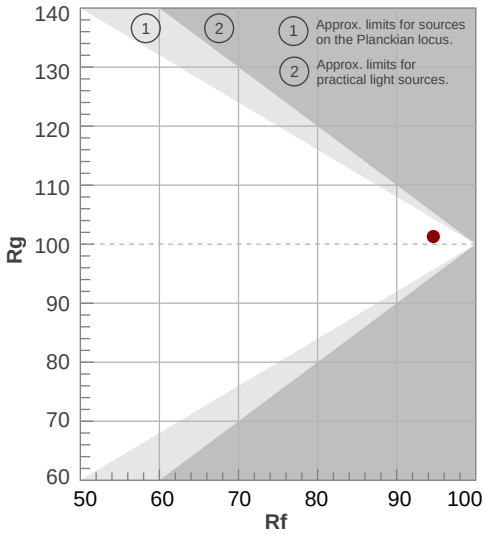
Rf 94,6

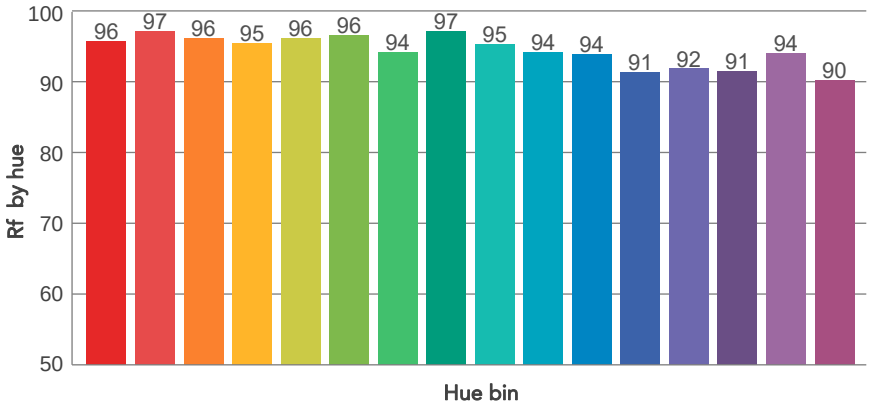
Fidelity index Rf

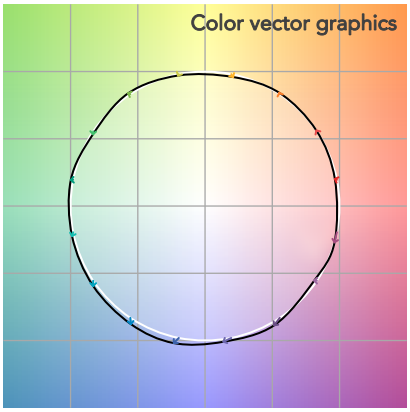
Rg 101,3

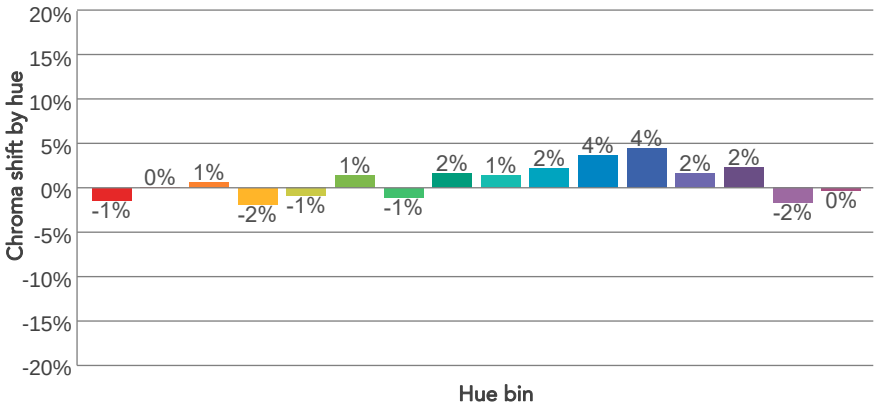
Gamut index

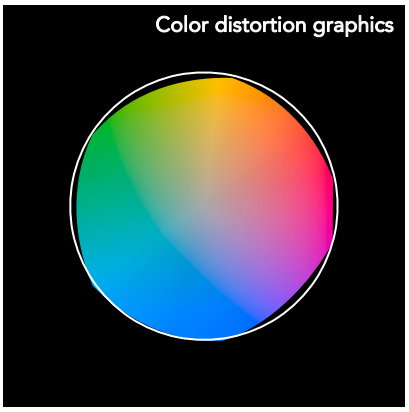
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	96	-1%	1%
2	97	0%	1%
3	96	1%	1%
4	95	-2%	-2%
5	96	-1%	1%
6	96	1%	1%
7	94	-1%	2%
8	97	2%	0%
9	95	1%	3%
10	94	2%	3%
11	94	4%	3%
12	91	4%	-3%
13	92	2%	-6%
14	91	2%	-7%
15	94	-2%	-1%
16	90	0%	-8%

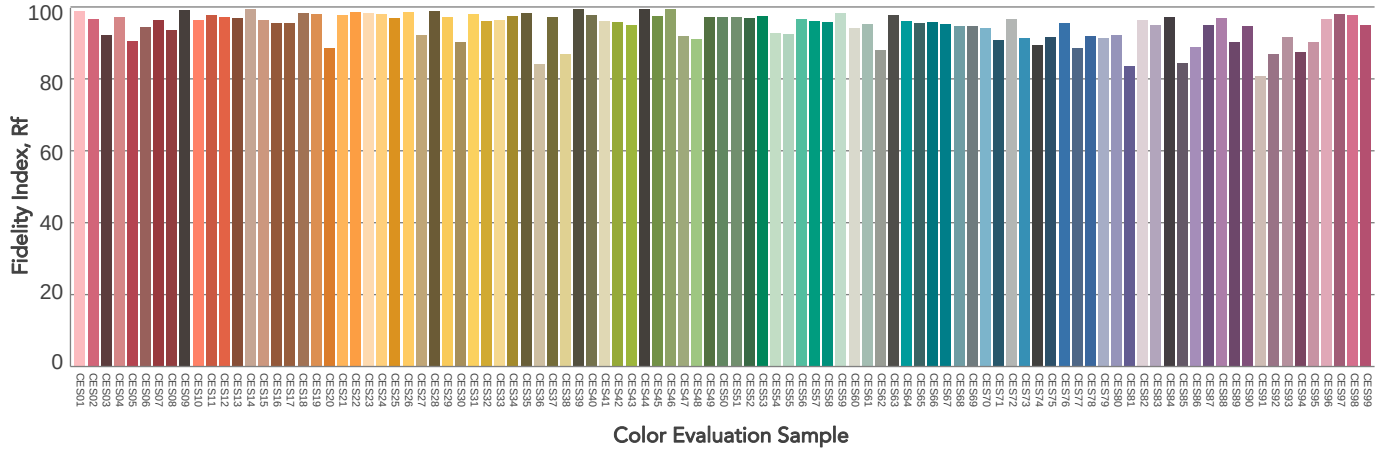












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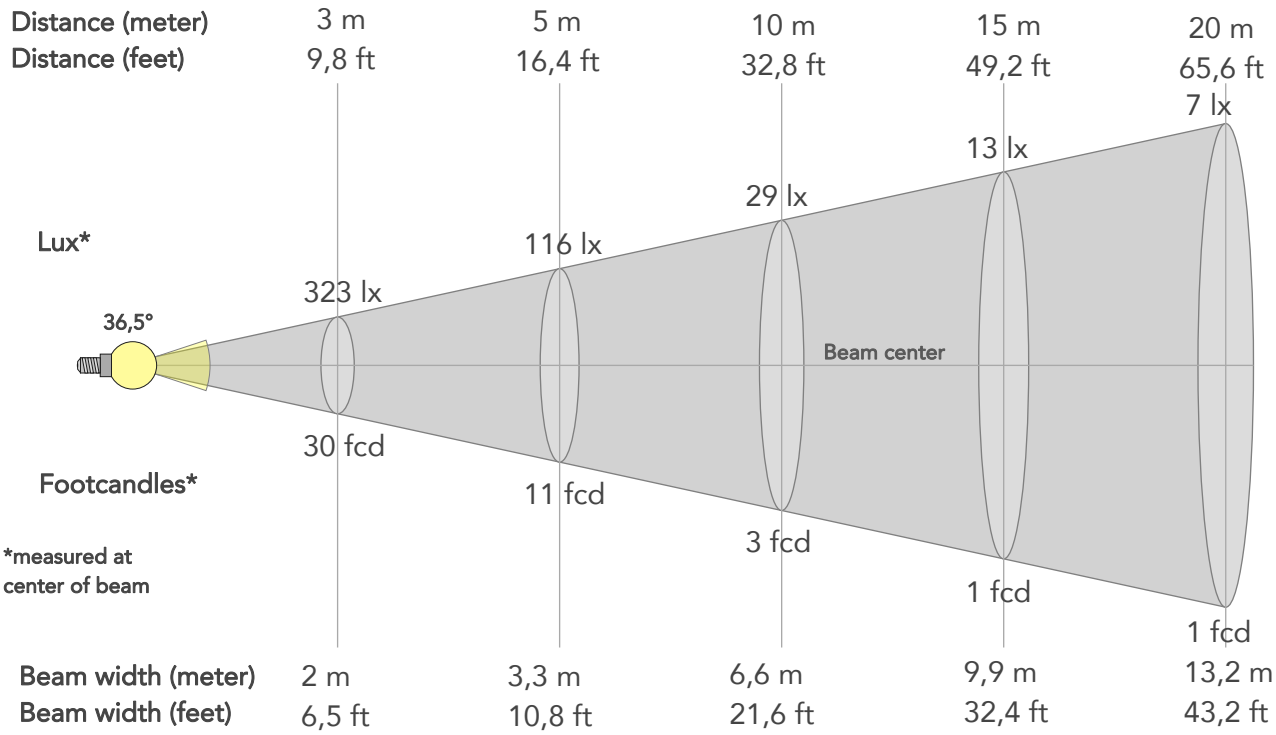
BEAM DETAILS

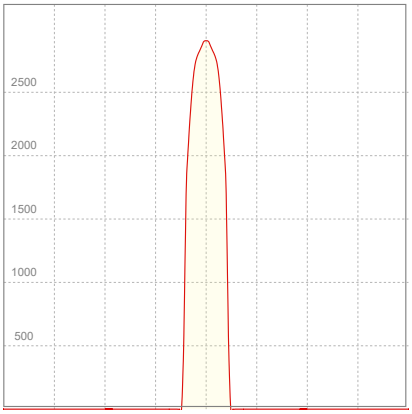
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
36,5°	41,6°	43,2°	100,0%	100,0%



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	2903lx	726lx	323lx	181lx	116lx	52lx	29lx	13lx	7lx	5lx	3lx	2lx	1lx
Footcand.	270fcd	67fcd	30fcd	17fcd	11fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,3m	2m	2,6m	3,3m	4,9m	6,6m	9,9m	13,2m	16,5m	19,8m	26,4m	33m
Beam wid.	2,2ft	4,4ft	6,5ft	8,6ft	10,8ft	16,2ft	21,6ft	32,4ft	43,2ft	54,1ft	64,9ft	86,5ft	108,1ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
228V	0,151A	31,6W	26lm/W

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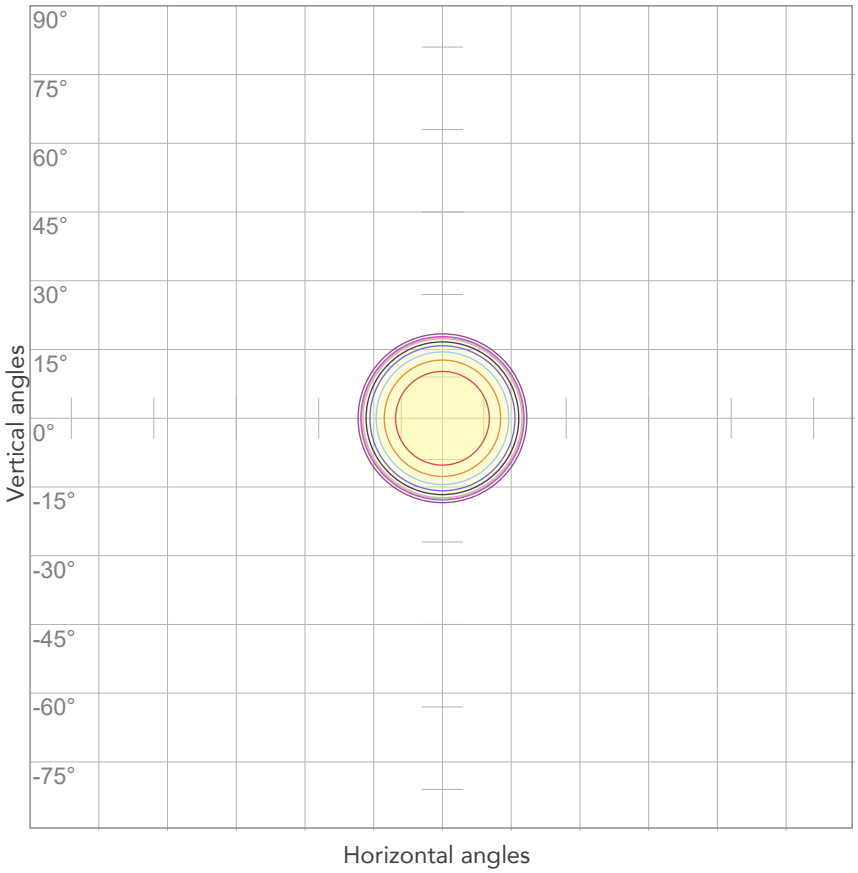
ISO DIAGRAMS

ISO CANDELA DIAGRAM



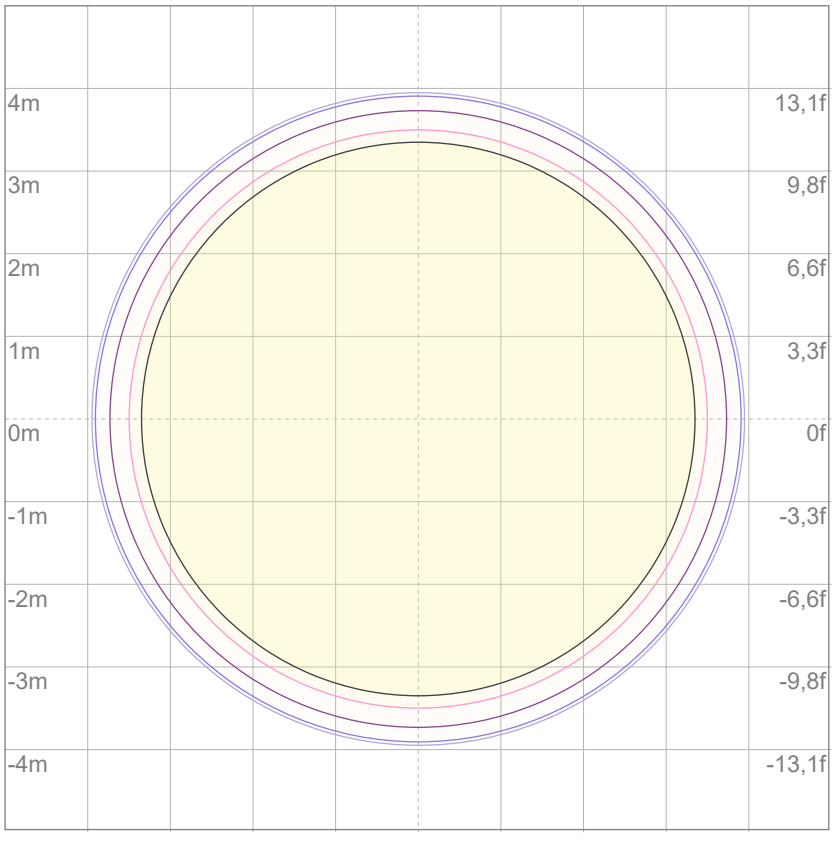
10%	290 cd
20%	581 cd
30%	871 cd
40%	1161 cd
50%	1451 cd
60%	1742 cd
70%	2032 cd
80%	2322 cd

Conditions:

Number of c-planes: 2

Candela at center: 2903 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,871 lx
5%	1,45 lx
10%	2,90 lx
30%	8,71 lx
50%	14,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 29,0 lx

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

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Total lumen output:

723 lm

Peak candela output:

10657 cd

Light quality:

CRI: 96,2

Color temperature:

2723 K

PRODUCT NAME:

ECLDISPLAYVW

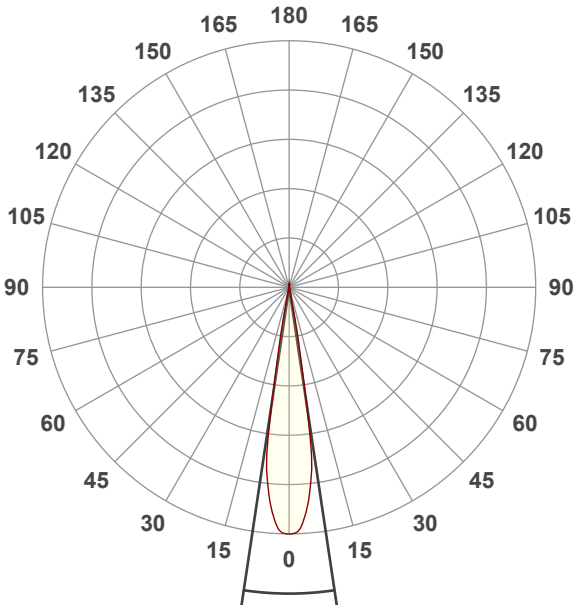
MEASURAMENT CONDITIONS:

Beam angle:
Profile 2040 Min Zoom

Target:
Warm White

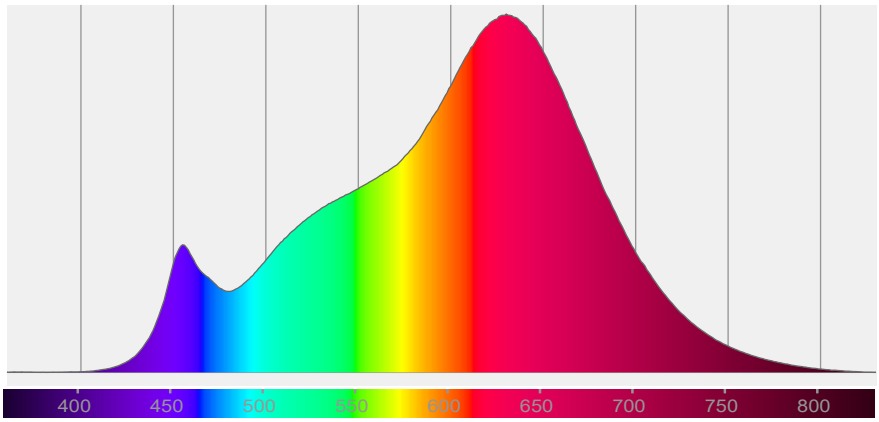
Operator:
Paolo Carvone

Date and time:
29/03/2023 10:57:59



Beam angle 50%: 17°
Field angle 10%: 21,9°
Cut off angle 2.5%: 23,2°

Spectra



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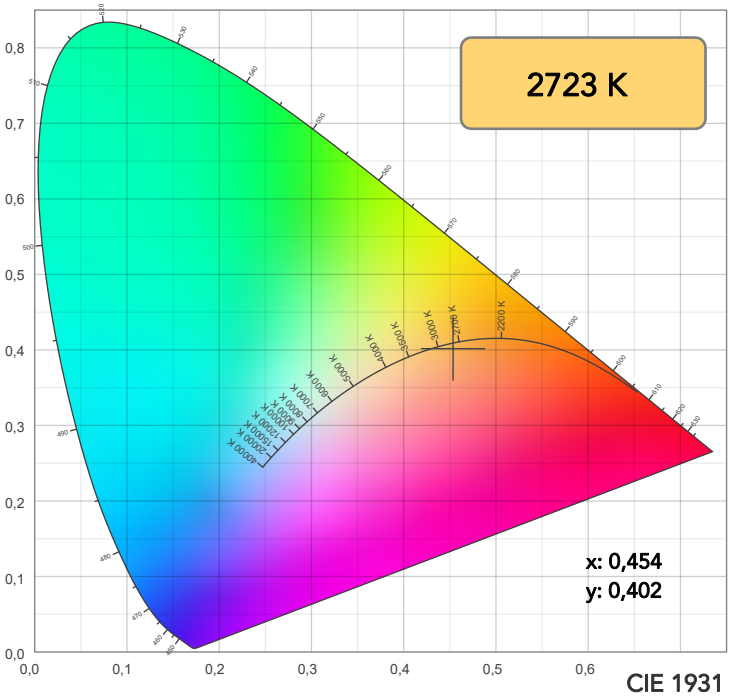
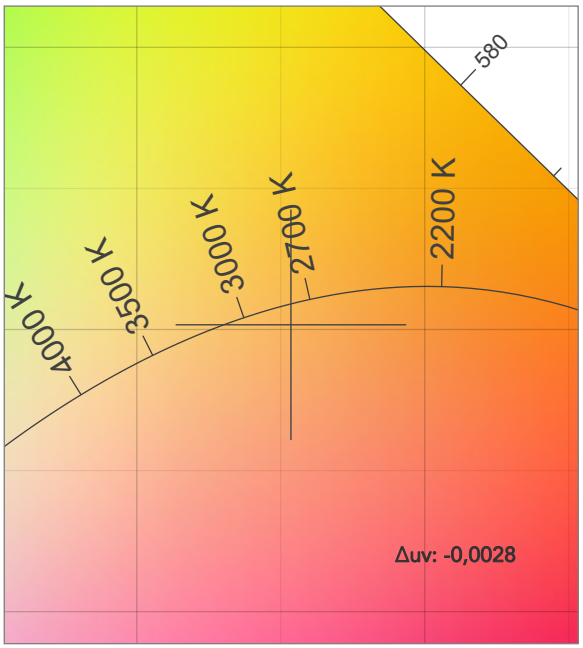
COLOR DETAILS

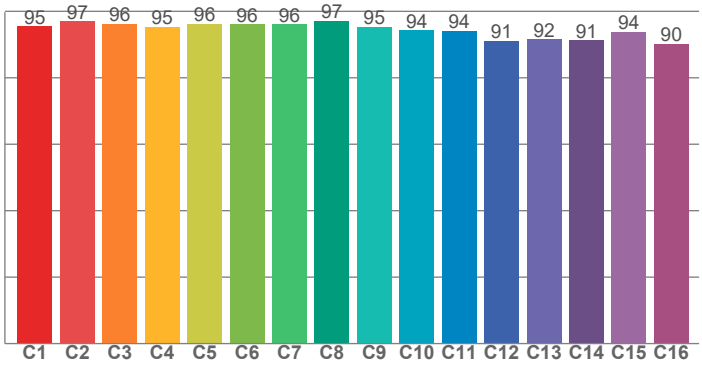


CIE 1931

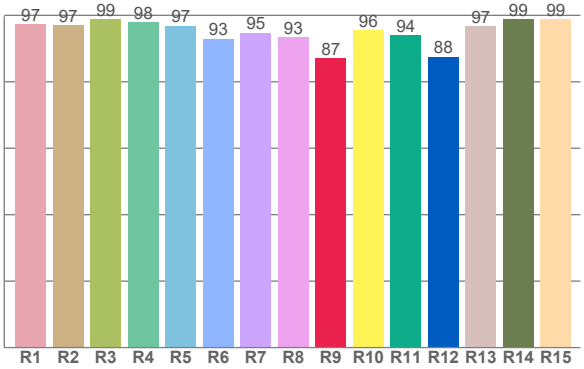


CIE 1931 ZOOM

TM30: 94,6



CRI: 96,2 (R1-R8)



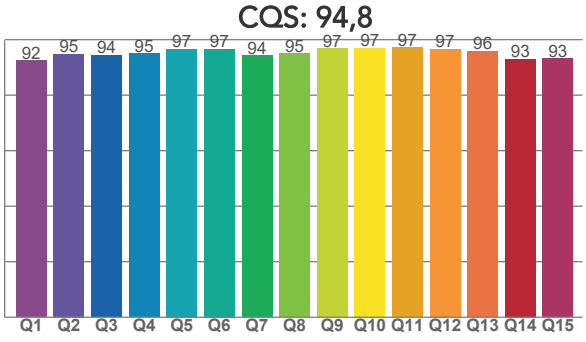
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97,4	97,1	98,8	98,0	96,9	92,9	94,7	93,3	87,1	95,5	94,0	87,6	96,7	98,8	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
95,4	97,0	96,2	95,3	96,2	96,1	96,0	97,2	95,3	94,3	94,0	91,2	91,5	91,2	93,8	90,2

CQS: 94,8



CQS Q values

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

COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2723 K	96,2	87,1	94,6	101,1	94,8	96	0,454	0,402	-0,0028

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TM30 DETAILS

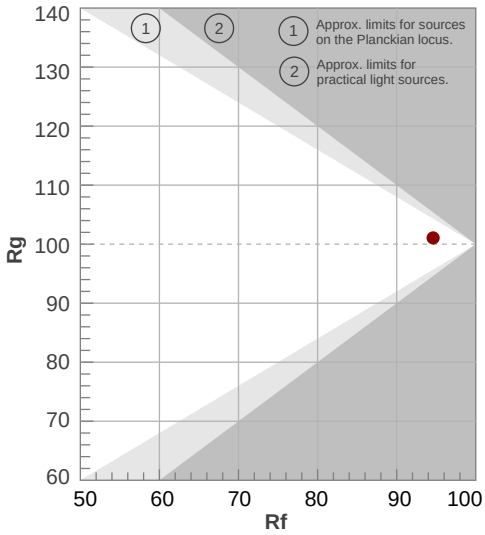
Rf 94,6

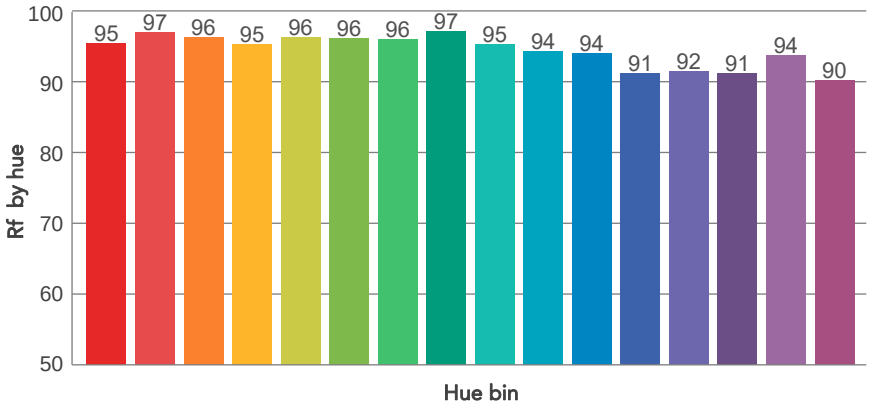
Fidelity index Rf

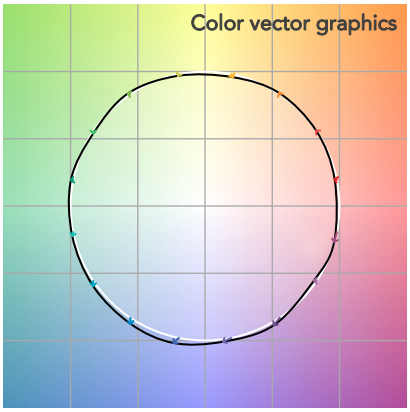
Rg 101,1

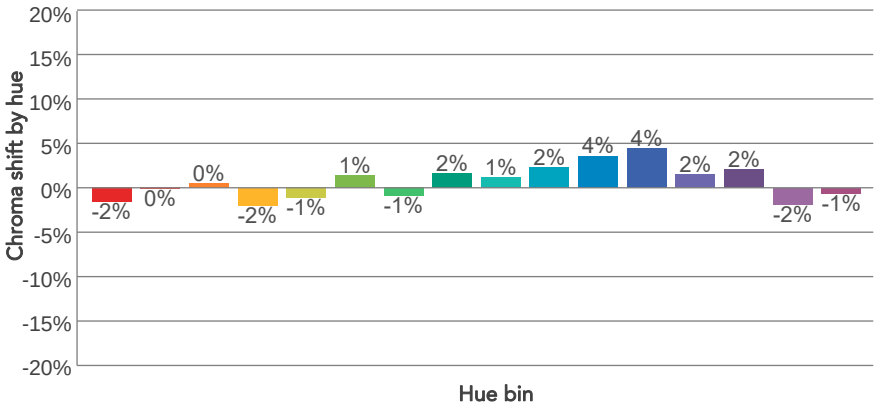
Gammut index

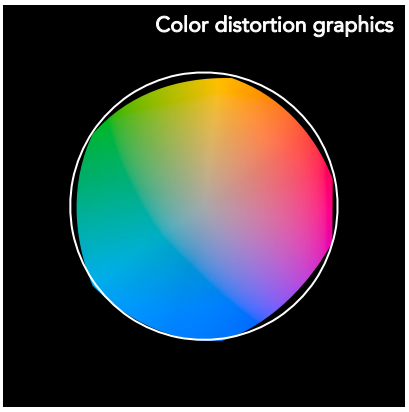
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	95	-2%	1%
2	97	0%	1%
3	96	0%	1%
4	95	-2%	-2%
5	96	-1%	1%
6	96	1%	1%
7	96	-1%	1%
8	97	2%	1%
9	95	1%	3%
10	94	2%	3%
11	94	4%	3%
12	91	4%	-3%
13	92	2%	-7%
14	91	2%	-7%
15	94	-2%	-1%
16	90	-1%	-8%

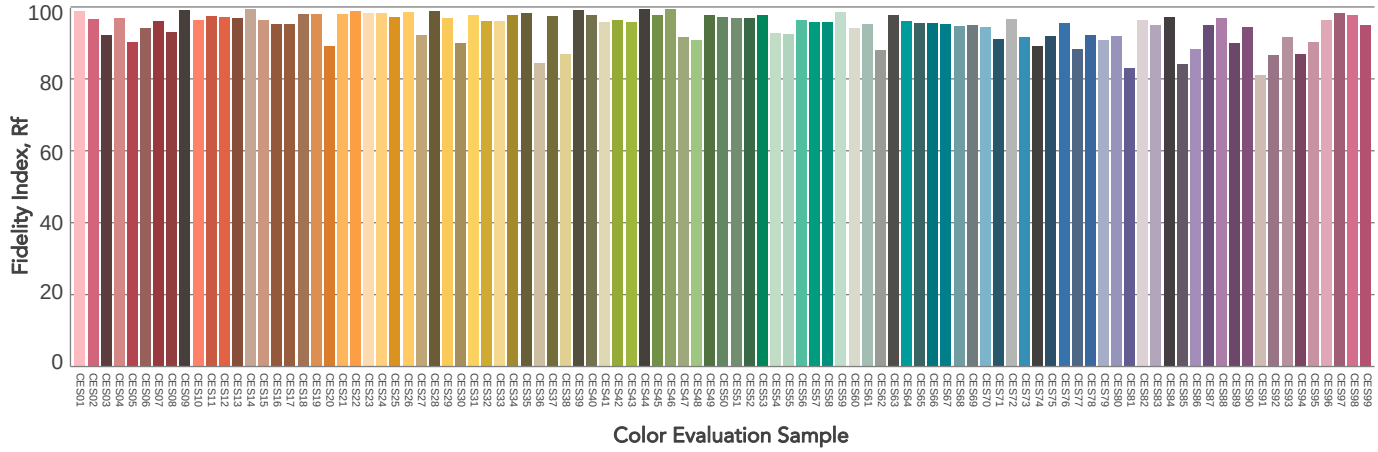












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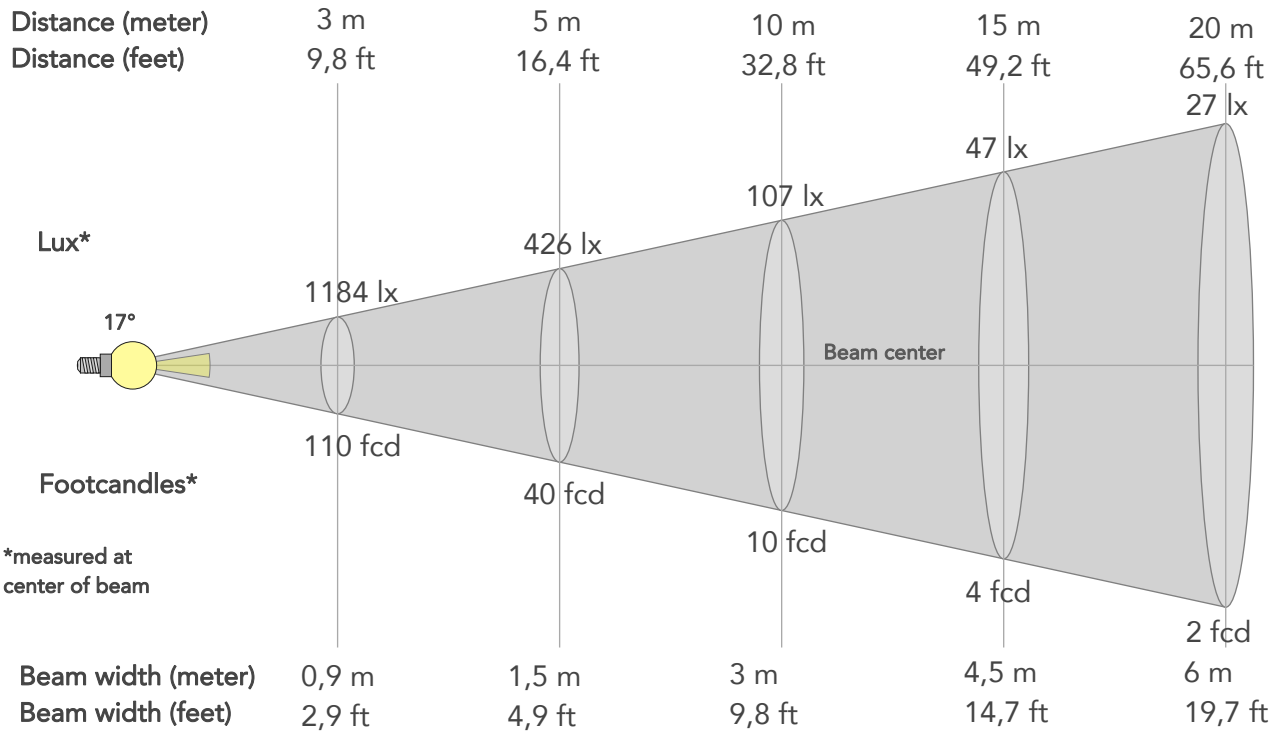
BEAM DETAILS

Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17°	21,9°	23,2°	100,0%	100,0%



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	10657lx	2664lx	1184lx	666lx	426lx	189lx	107lx	47lx	27lx	17lx	12lx	7lx	4lx
Footcand.	990fcd	248fcd	110fcd	62fcd	40fcd	18fcd	10fcd	4fcd	2fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,5m	2,2m	3m	4,5m	6m	7,5m	9m	12m	15m
Beam wid.	1ft	2ft	2,9ft	3,9ft	4,9ft	7,4ft	9,8ft	14,7ft	19,7ft	24,6ft	29,5ft	39,3ft	49,1ft

LINEAR DISTRIBUTION DIAGRAM

ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
228V	0,151A	31,6W	23lm/W

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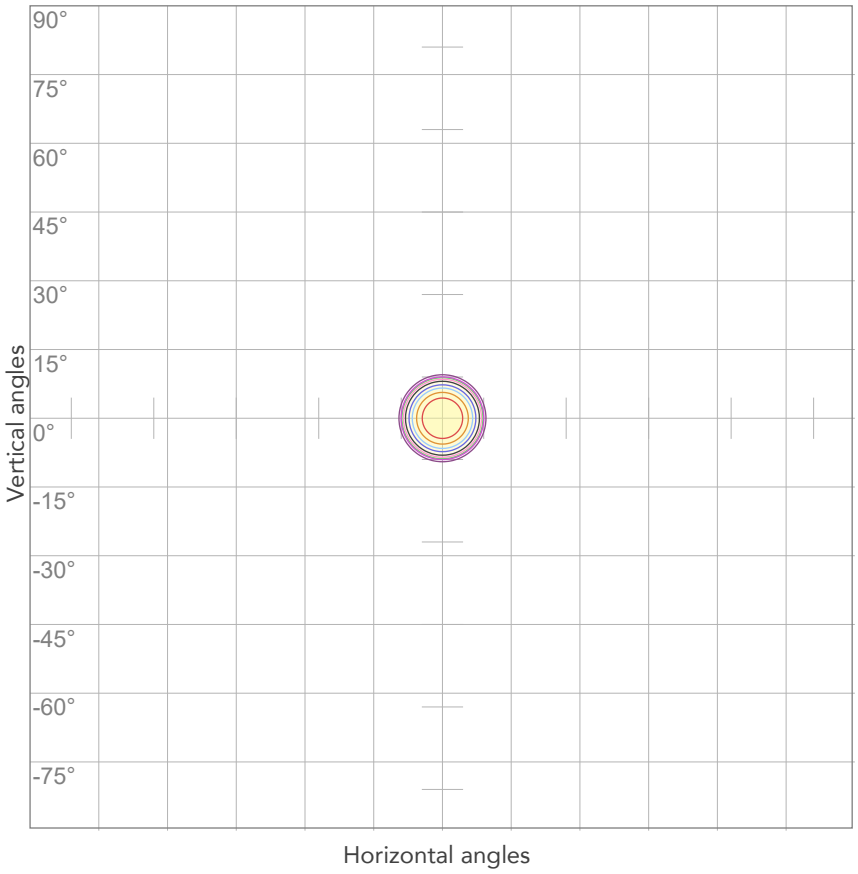
ISO DIAGRAMS

ISO CANDELA DIAGRAM



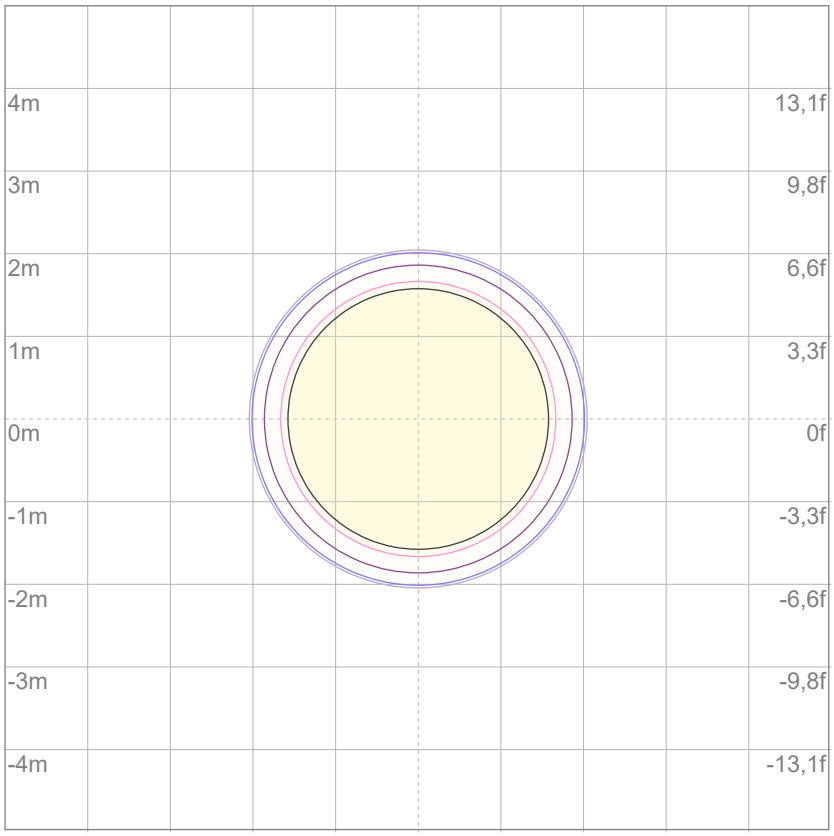
10%	1066 cd
20%	2131 cd
30%	3197 cd
40%	4263 cd
50%	5329 cd
60%	6394 cd
70%	7460 cd
80%	8526 cd

Conditions:

Number of c-planes: 2

Candela at center: 10657 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	3,20 lx
5%	5,33 lx
10%	10,7 lx
30%	32,0 lx
50%	53,3 lx

Conditions:

Number of c-planes: 2

Lux at center: 107 lx

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

Total lumen output:

1153 lm

Peak candela output:

4009 cd

Light quality:

CRI: 96,7

Color temperature:

5598 K

PRODUCT NAME:

ECLDISPLAYVW

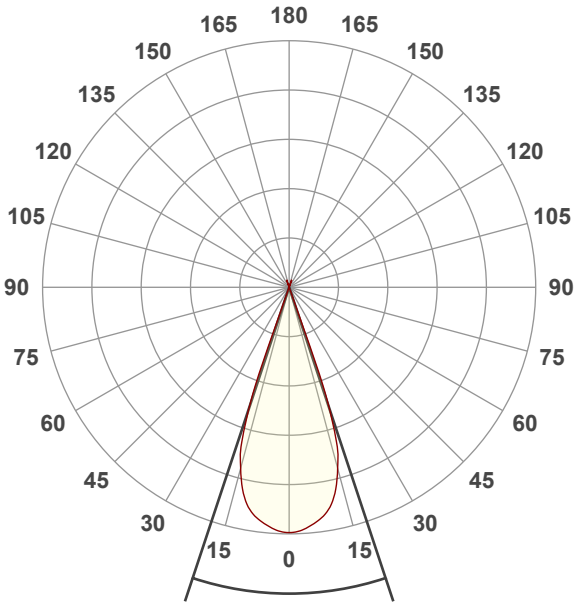
MEASURAMENT CONDITIONS:

Beam angle:
Profile 2040 Max Zoom

Target:
Cold White

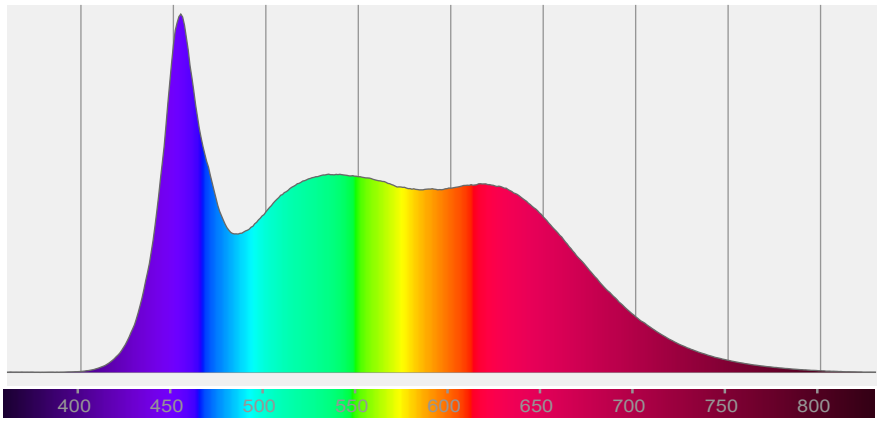
Operator:
Paolo Carvone

Date and time:
29/03/2023 10:53:56

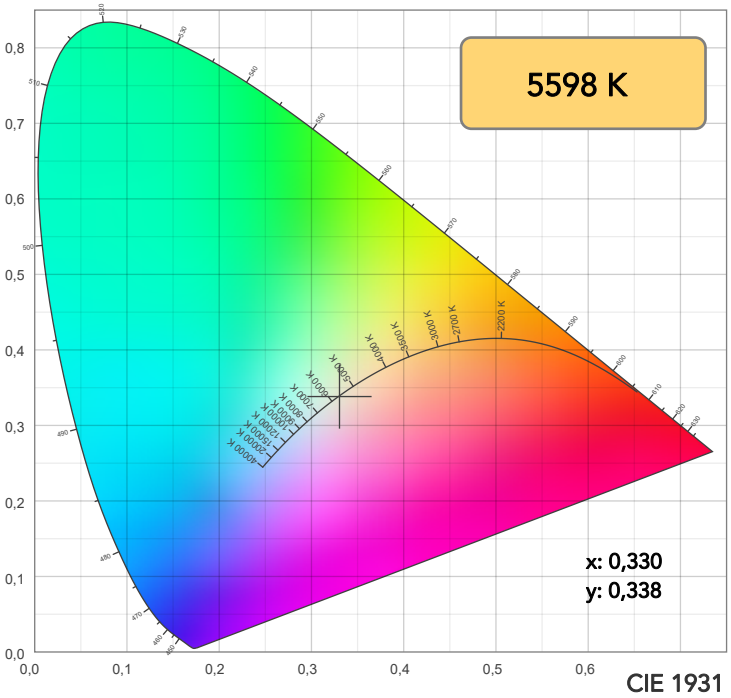


Beam angle 50%: 36,7°
Field angle 10%: 41,1°
Cut off angle 2.5%: 41,8°

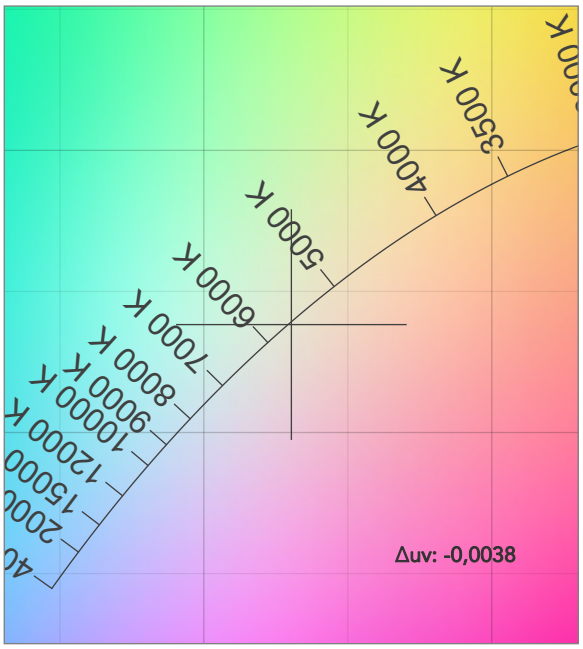
Spectra



COLOR DETAILS

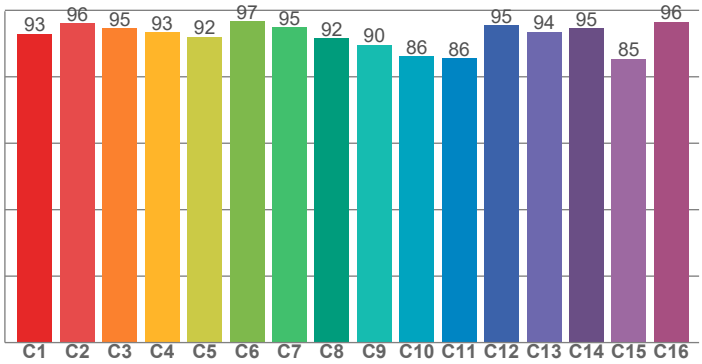


CIE 1931

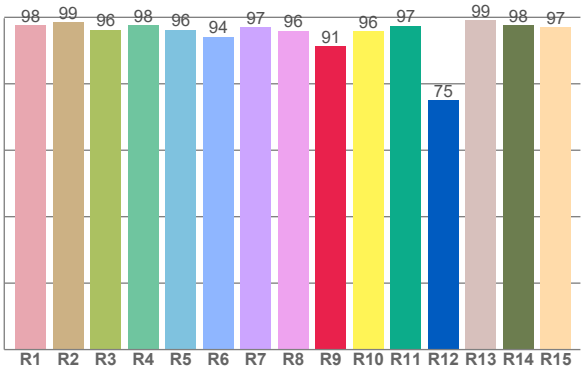


CIE 1931 ZOOM

TM30: 92,2



CRI: 96,7 (R1-R8)



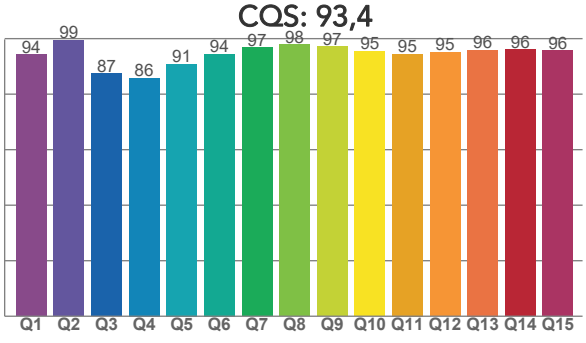
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97,6	98,6	96,2	97,6	96,3	94,2	97,0	96,0	91,4	95,8	97,5	75,0	99,1	97,6	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
92,9	96,1	94,6	93,4	92,0	96,7	94,9	91,5	89,7	86,1	85,6	95,4	93,5	94,6	85,5	96,5

CQS: 93,4



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,2	99,4	87,5	85,8	90,8	94,5	96,8	97,9	97,1	95,4	94,5	95,1	96,0	96,0	95,7

COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5598 K	96,7	91,4	92,2	99,7	93,4	98	0,330	0,338	-0,0038

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TM30 DETAILS

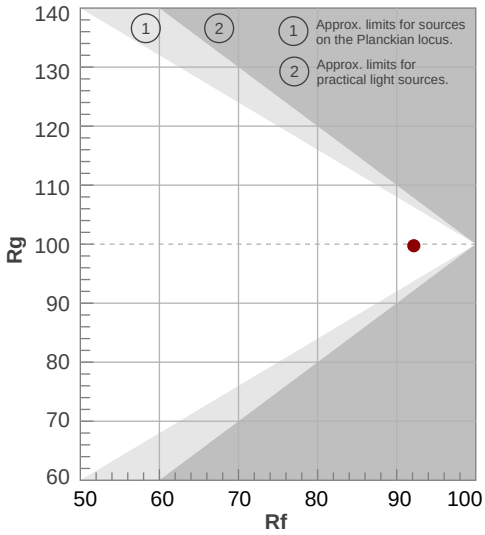
Rf 92,2

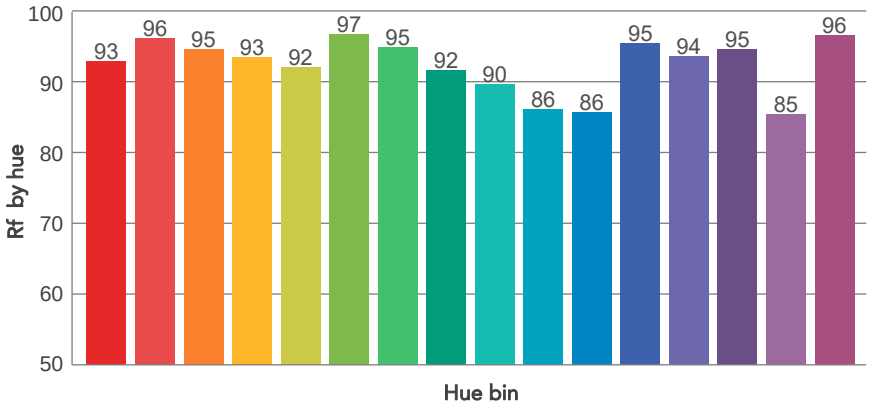
Fidelity index Rf

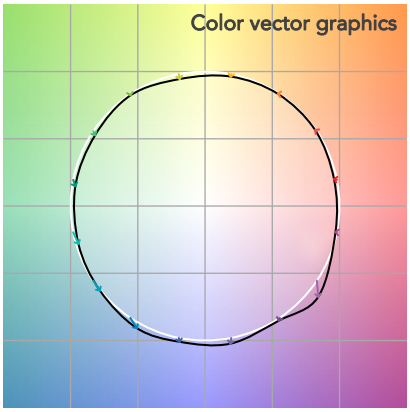
Rg 99,7

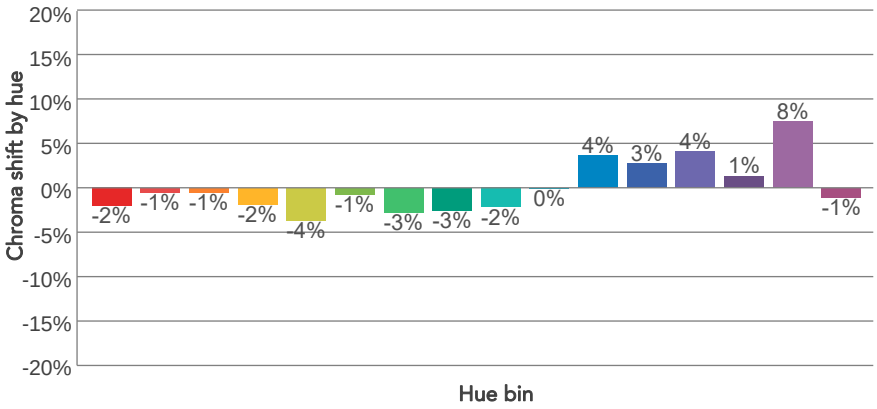
Gammut index

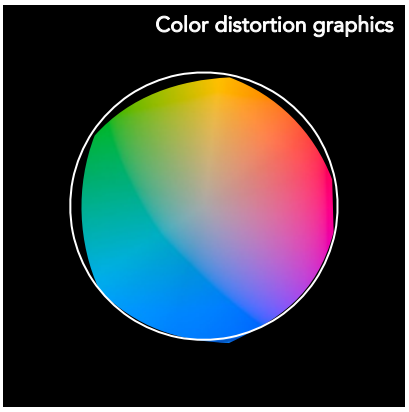
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	93	-2%	1%
2	96	-1%	1%
3	95	-1%	1%
4	93	-2%	0%
5	92	-4%	0%
6	97	-1%	0%
7	95	-3%	2%
8	92	-3%	4%
9	90	-2%	9%
10	86	0%	9%
11	86	4%	8%
12	95	3%	1%
13	94	4%	-2%
14	95	1%	-2%
15	85	8%	-9%
16	96	-1%	0%

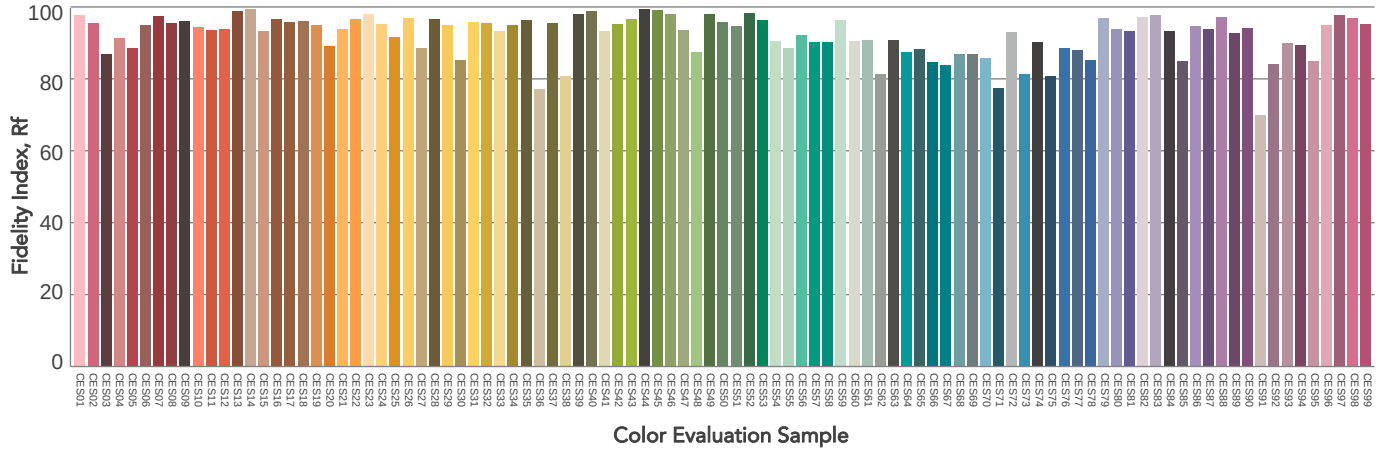












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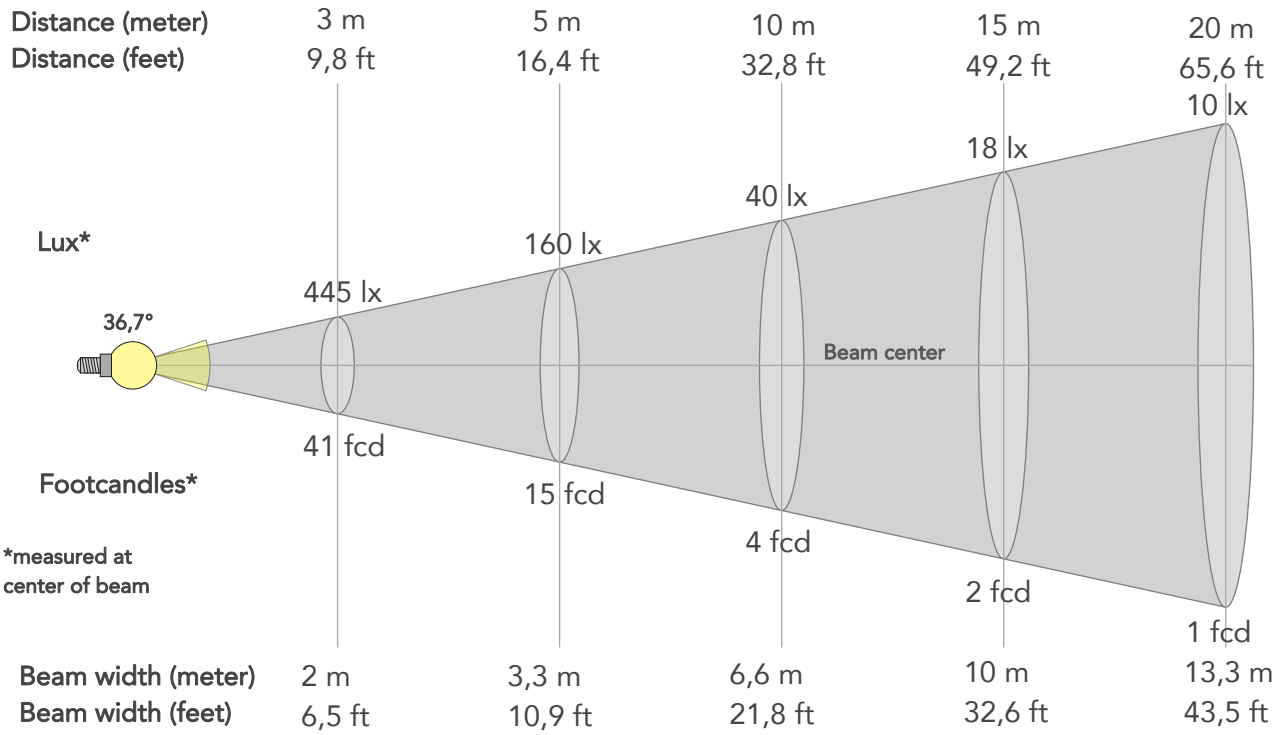
BEAM DETAILS

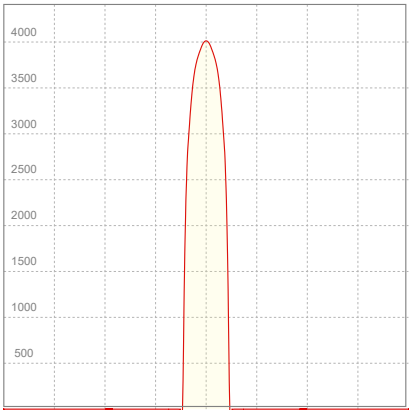
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
36,7°	41,1°	41,8°	100,0%	100,0%



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	4009lx	1002lx	445lx	251lx	160lx	71lx	40lx	18lx	10lx	6lx	4lx	3lx	2lx
Footcand.	372fcd	93fcd	41fcd	23fcd	15fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,3m	2m	2,7m	3,3m	5m	6,6m	10m	13,3m	16,6m	19,9m	26,5m	33,2m
Beam wid.	2,2ft	4,4ft	6,5ft	8,7ft	10,9ft	16,3ft	21,8ft	32,6ft	43,5ft	54,4ft	65,3ft	87ft	108,8ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,152A	31,8W	36lm/W

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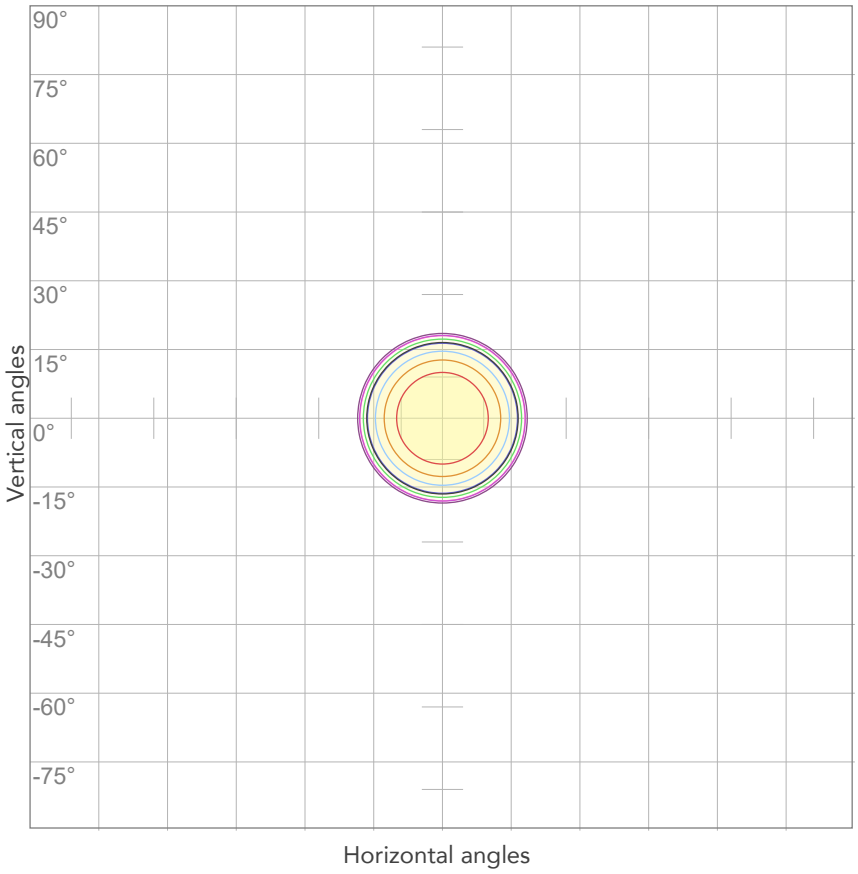
ISO DIAGRAMS

ISO CANDELA DIAGRAM



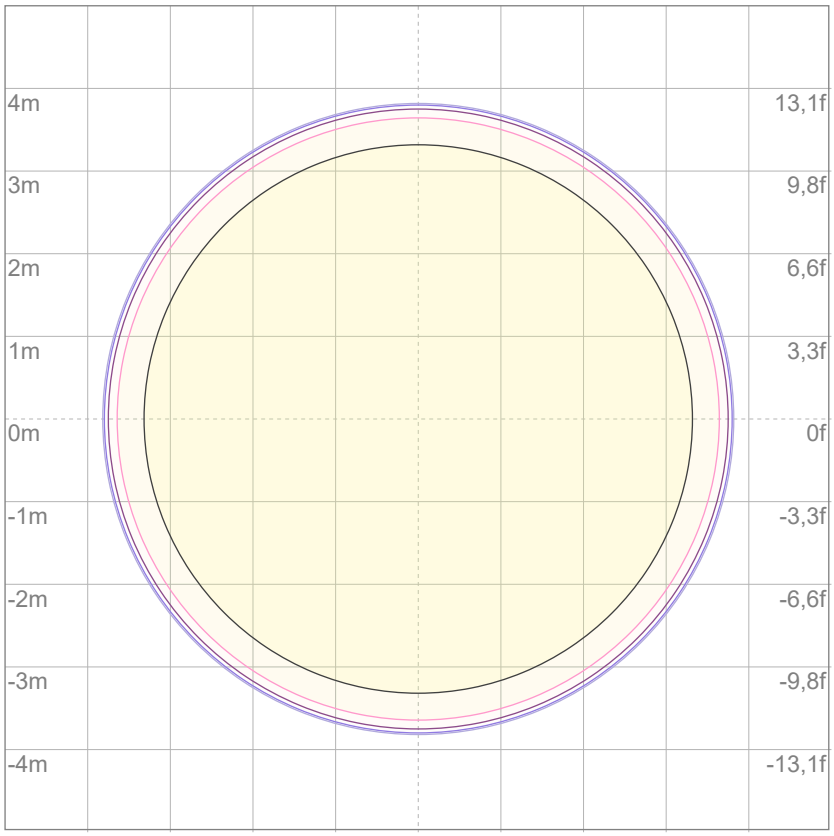
10%	401 cd
20%	802 cd
30%	1203 cd
40%	1603 cd
50%	2004 cd
60%	2405 cd
70%	2806 cd
80%	3207 cd

Conditions:

Number of c-planes: 2

Candela at center: 4009 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,20 lx
5%	2,00 lx
10%	4,01 lx
30%	12,0 lx
50%	20,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 40,1 lx

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

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Total lumen output:

986 lm

Peak candela output:

14683 cd

Light quality:

CRI: 96,7

Color temperature:

5425 K

PRODUCT NAME:

ECLDISPLAYVW

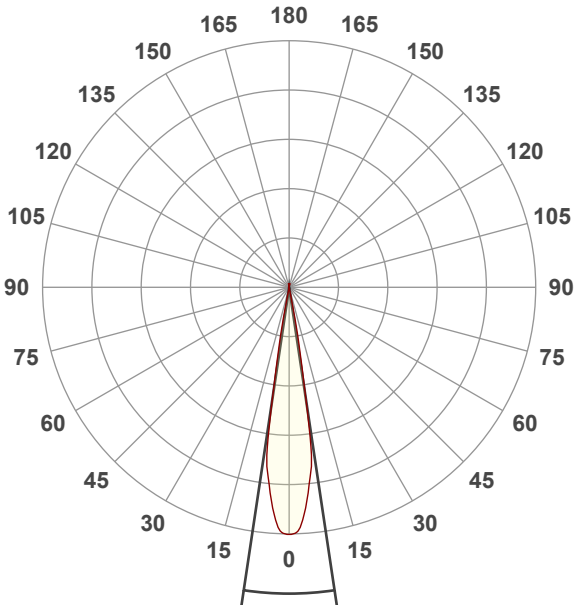
MEASURAMENT CONDITIONS:

Beam angle:
Profile 2040 Min Zoom

Target:
Cold White

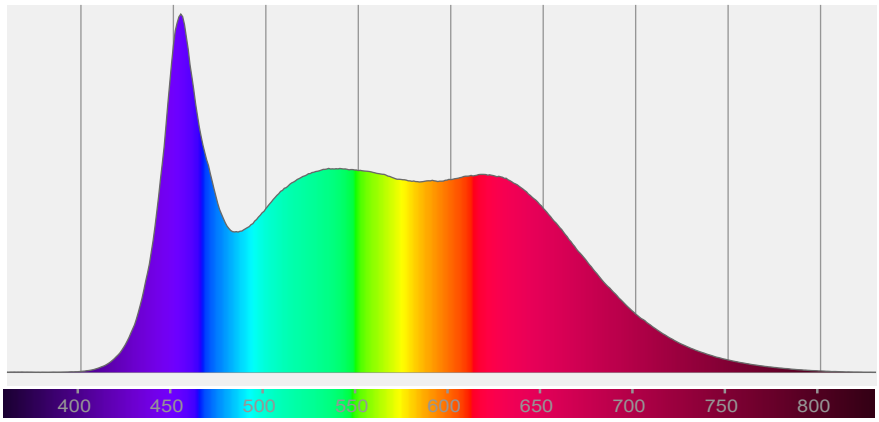
Operator:
Paolo Carvone

Date and time:
29/03/2023 10:55:48

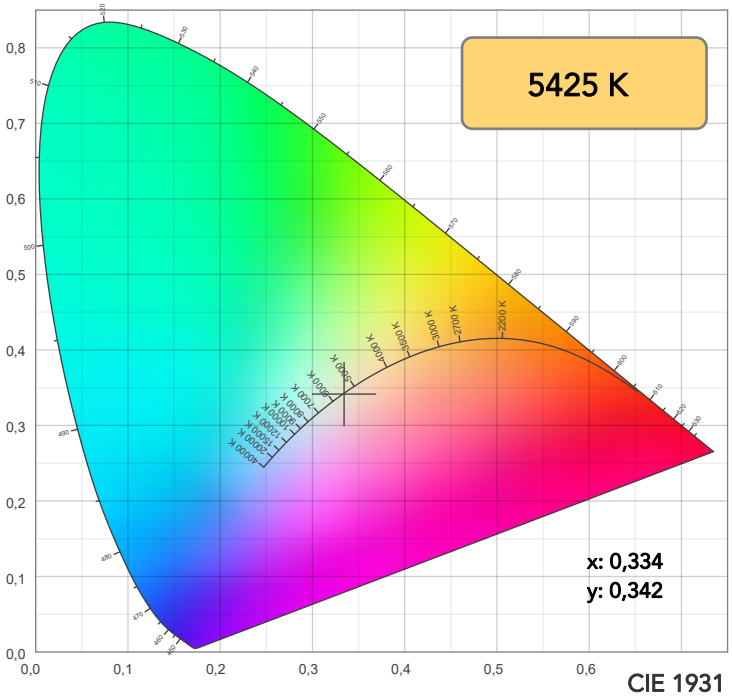


Beam angle 50%: 17°
Field angle 10%: 21,9°
Cut off angle 2.5%: 23,2°

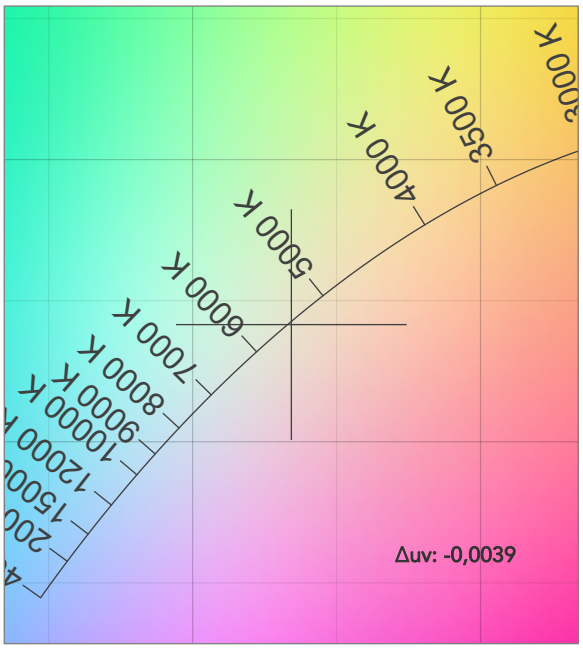
Spectra



COLOR DETAILS

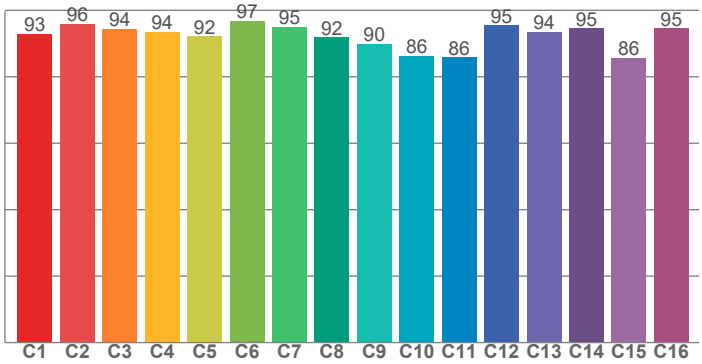


CIE 1931

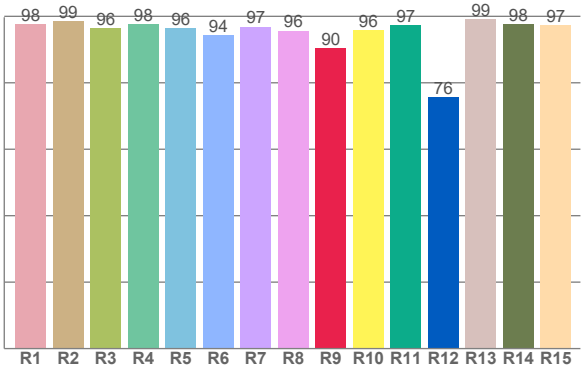


CIE 1931 ZOOM

TM30: 92,3



CRI: 96,7 (R1-R8)



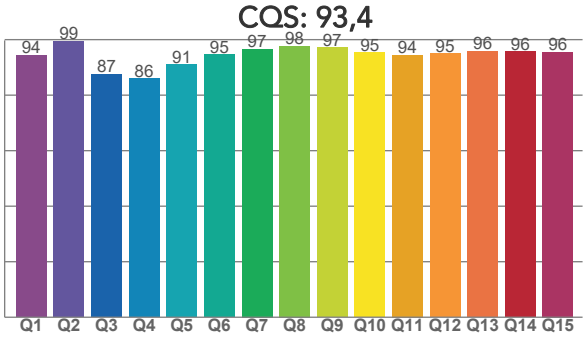
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97,6	98,6	96,3	97,5	96,3	94,3	96,9	95,7	90,3	95,7	97,4	75,6	99,1	97,6	97,2

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,9	96,0	94,5	93,5	92,2	96,8	95,1	91,8	89,9	86,4	85,8	95,4	93,6	94,6	85,7	94,6

CQS: 93,4



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,4	99,4	87,5	86,0	91,0	94,6	96,6	97,7	97,2	95,4	94,4	94,9	95,8	95,7	95,5

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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5425 K	96,7	90,3	92,3	99,8	93,4	98	0,334	0,342	-0,0039

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TM30 DETAILS

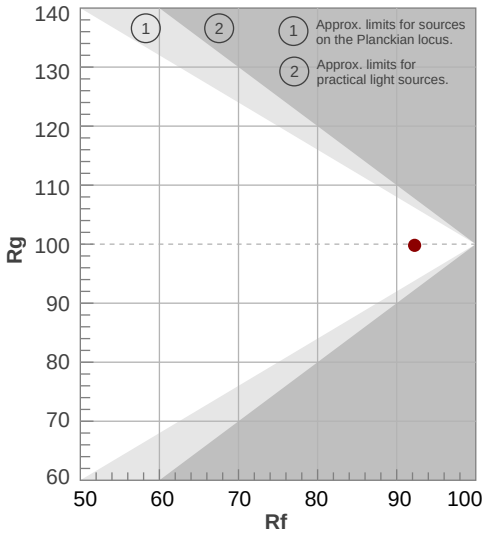
Rf 92,3

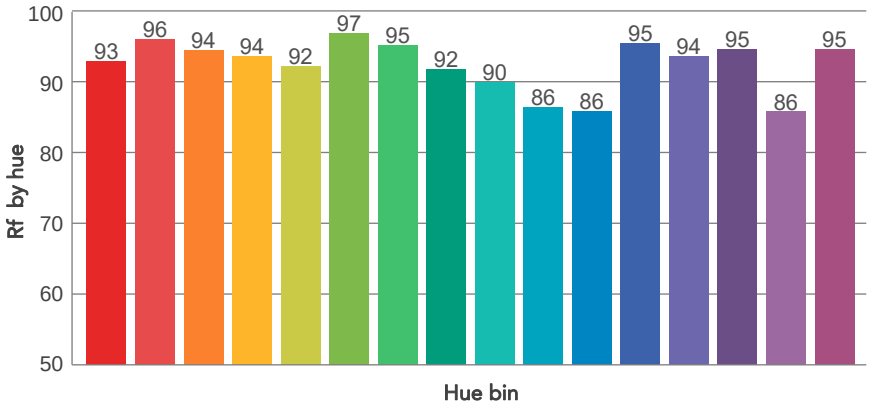
Fidelity index Rf

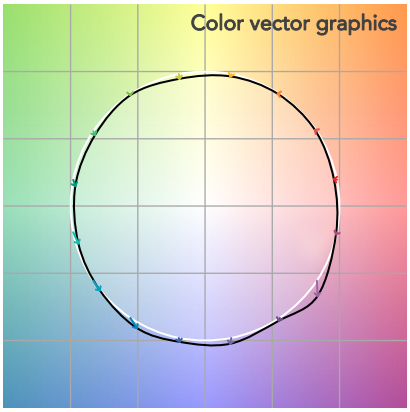
Rg 99,8

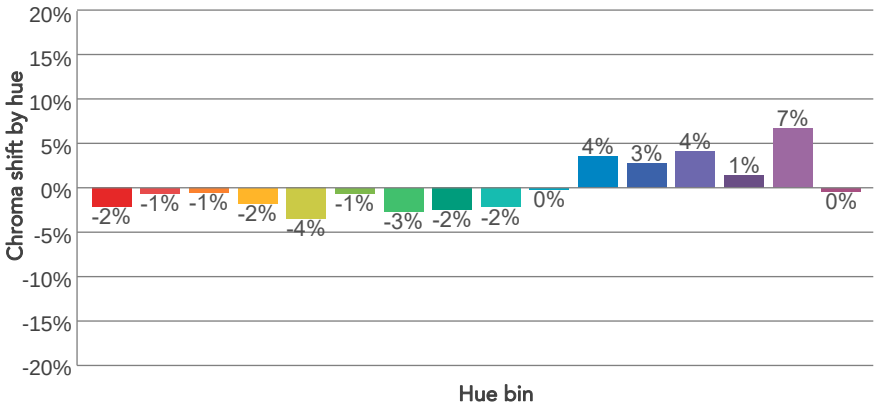
Gammut index

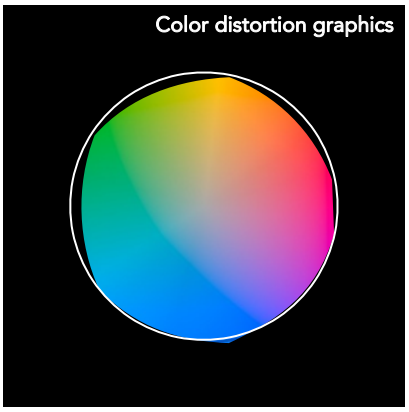
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	93	-2%	1%
2	96	-1%	2%
3	94	-1%	1%
4	94	-2%	0%
5	92	-4%	0%
6	97	-1%	0%
7	95	-3%	1%
8	92	-2%	4%
9	90	-2%	9%
10	86	0%	9%
11	86	4%	8%
12	95	3%	1%
13	94	4%	-2%
14	95	1%	-2%
15	86	7%	-9%
16	95	0%	-2%

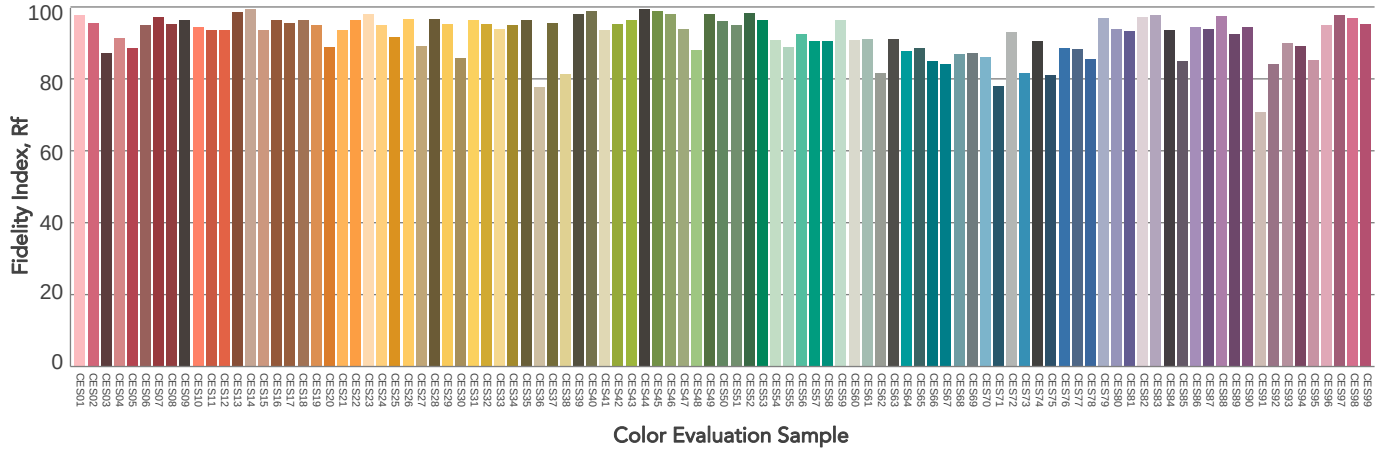












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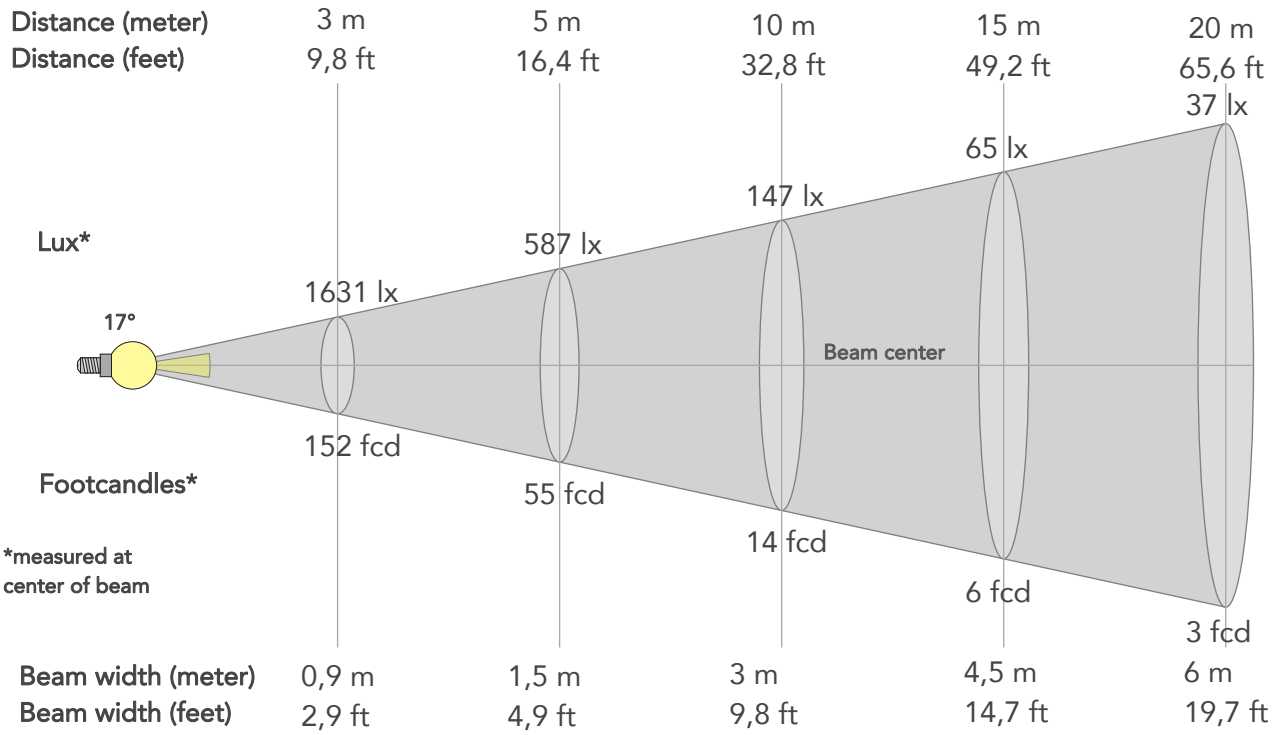
BEAM DETAILS

Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17°	21,9°	23,2°	100,0%	100,0%



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	14683lx	3671lx	1631lx	918lx	587lx	261lx	147lx	65lx	37lx	23lx	16lx	9lx	6lx
Footcand.	1364fcd	341fcd	152fcd	85fcd	55fcd	24fcd	14fcd	6fcd	3fcd	2fcd	2fcd	1fcd	1fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,5m	2,2m	3m	4,5m	6m	7,5m	9m	12m	15m
Beam wid.	1ft	2ft	2,9ft	3,9ft	4,9ft	7,4ft	9,8ft	14,7ft	19,7ft	24,6ft	29,5ft	39,3ft	49,2ft

LINEAR DISTRIBUTION DIAGRAM

ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,152A	31,8W	31lm/W

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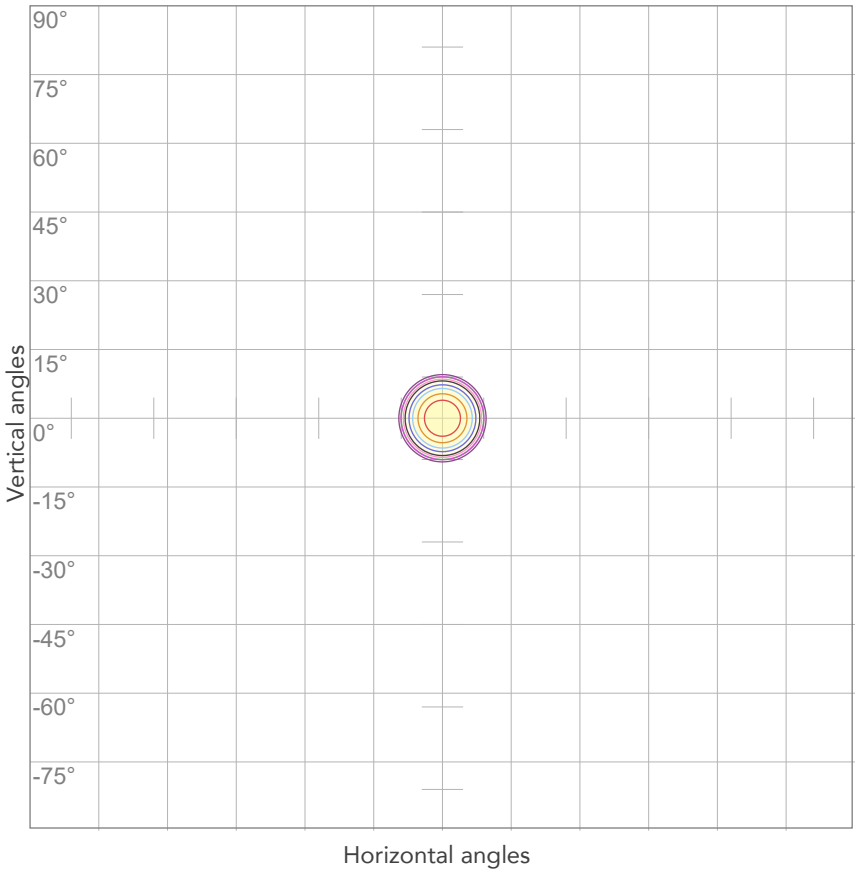
ISO DIAGRAMS

ISO CANDELA DIAGRAM



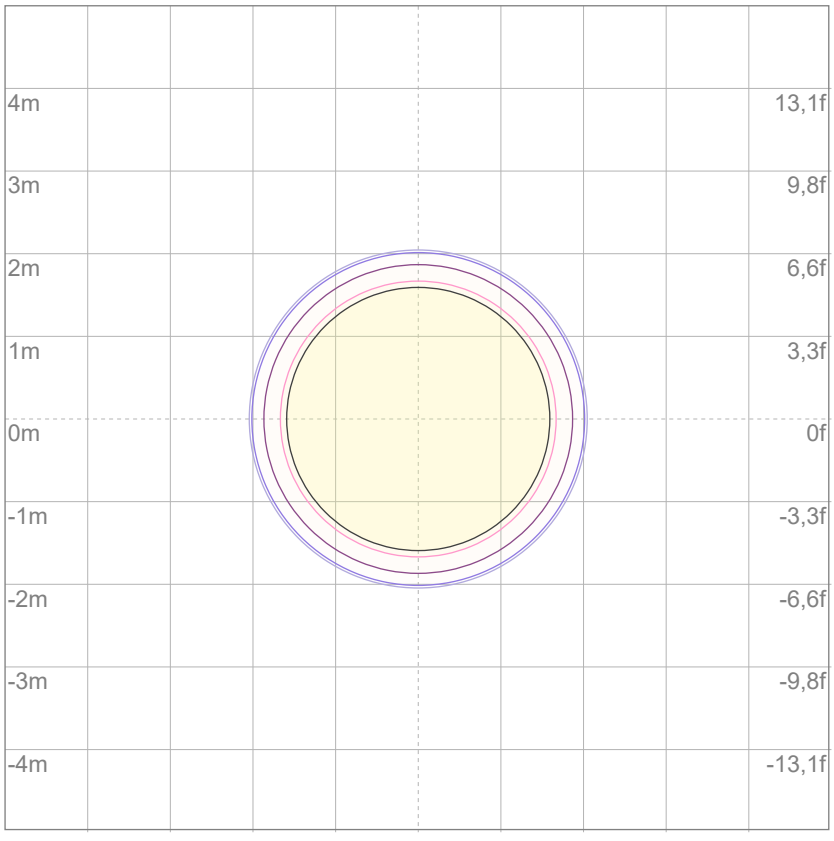
10%	1468 cd
20%	2937 cd
30%	4405 cd
40%	5873 cd
50%	7341 cd
60%	8810 cd
70%	10278 cd
80%	11746 cd

Conditions:

Number of c-planes: 2

Candela at center: 14683 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	4,40 lx
5%	7,34 lx
10%	14,7 lx
30%	44,0 lx
50%	73,4 lx

Conditions:

Number of c-planes: 2

Lux at center: 147 lx

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

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