PROLiGHTS

Photometric Test Report

ECLDISPLAYCASVW

ZOOMABLE PROFILE LENS 10-20°

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

(CASAMBI control on-board)

CONTENTS

TESTING PROCESS

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

Prolights measurement instrument

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

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

Prolights measurement software

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

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

Total lumen output:

1114 lm

Peak candela output:

15379 cd

Light quality:

CRI: 97,6

Color temperature:

4022 K

PRODUCT NAME:

ECLDISPLAYVW

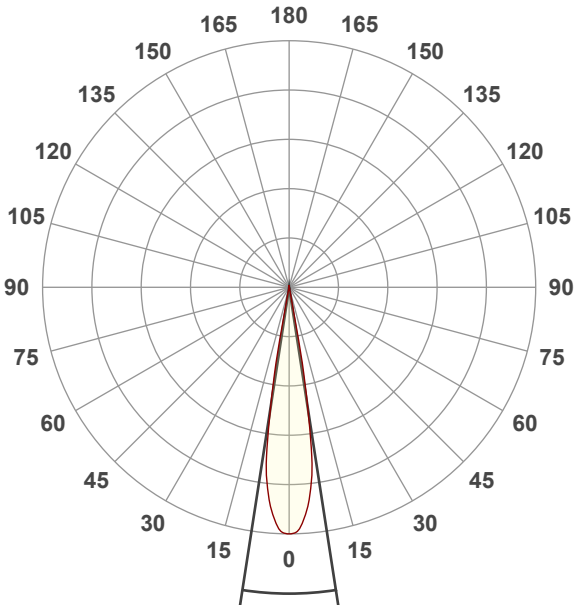
MEASURAMENT CONDITIONS:

Beam angle:
Profile 1020 Max Zoom

Target:
Full On

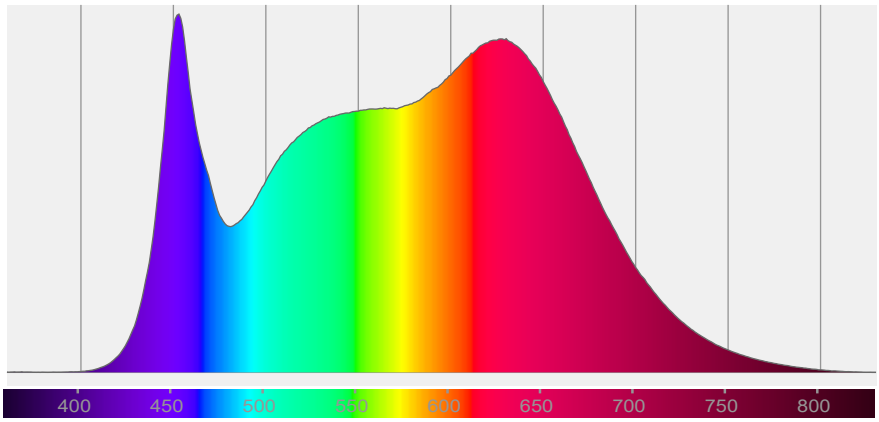
Operator:
Paolo Carvone

Date and time:
29/03/2023 10:13:09

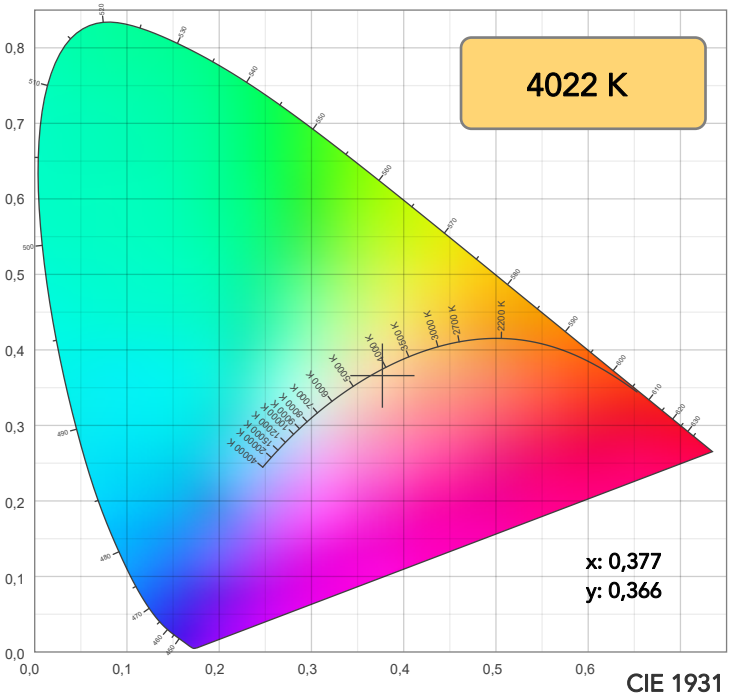


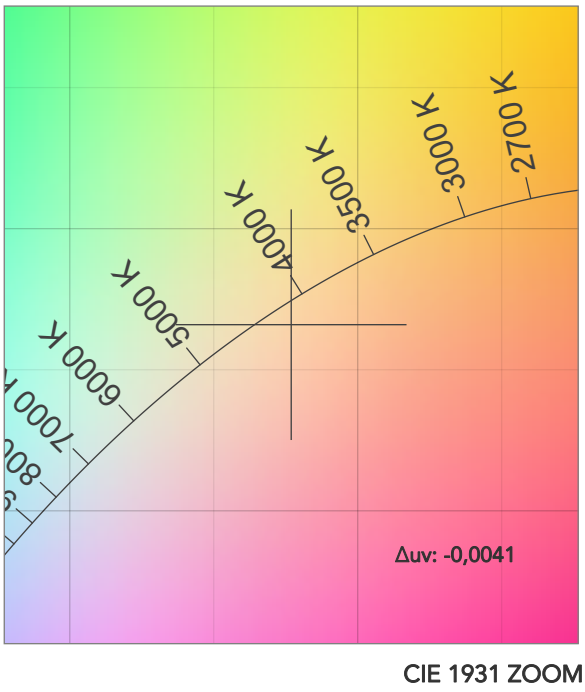
Beam angle 50%: 17,6°
Field angle 10%: 22,3°
Cut off angle 2.5%: 23,2°

Spectra

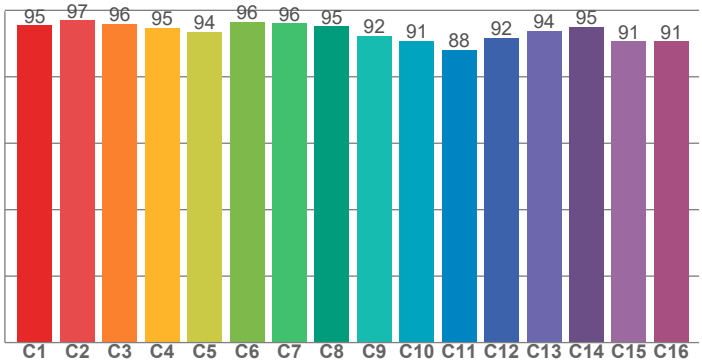


COLOR DETAILS

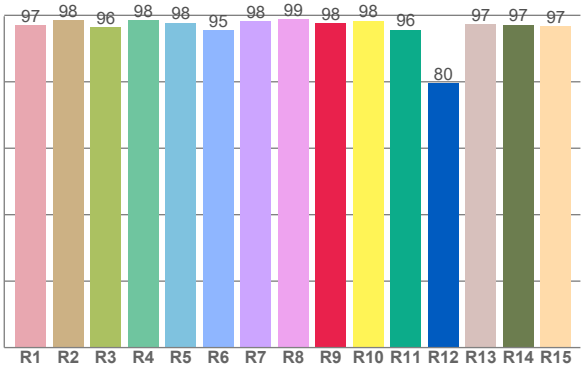




TM30: 93,5



CRI: 97,6 (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
97,1	98,5	96,5	98,5	97,8	95,5	98,2	98,8	97,7	98,4	95,6	79,6	97,3	97,2	96,7

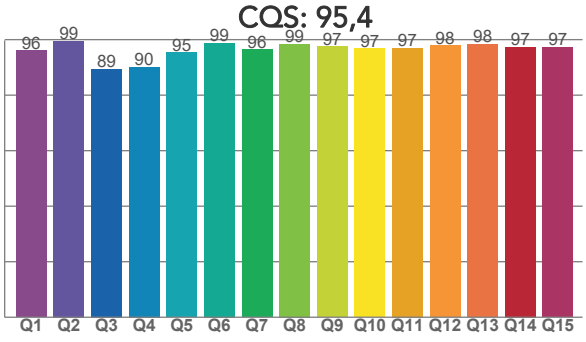
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,0	99,5	89,3	90,2	95,4	98,8	96,4	98,5	97,4	96,7	97,0	97,9	98,3	97,4	97,2

CQS: 95,4



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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4022 K	97,6	97,7	93,5	101,4	95,4	98	0,377	0,366	-0,0041

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TM30 DETAILS

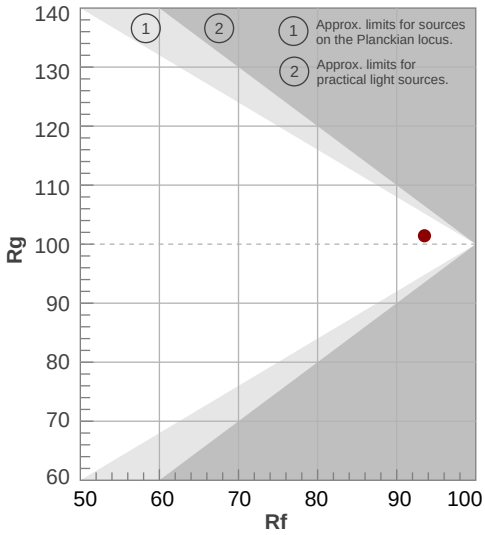
Rf 93,5

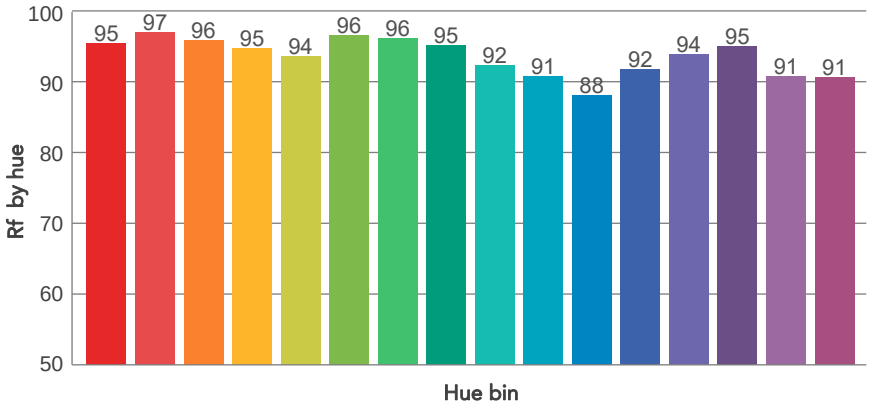
Fidelity index Rf

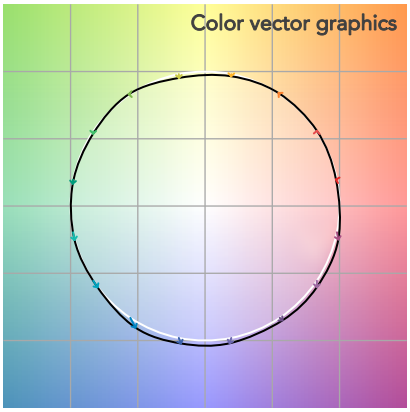
Rg 101,4

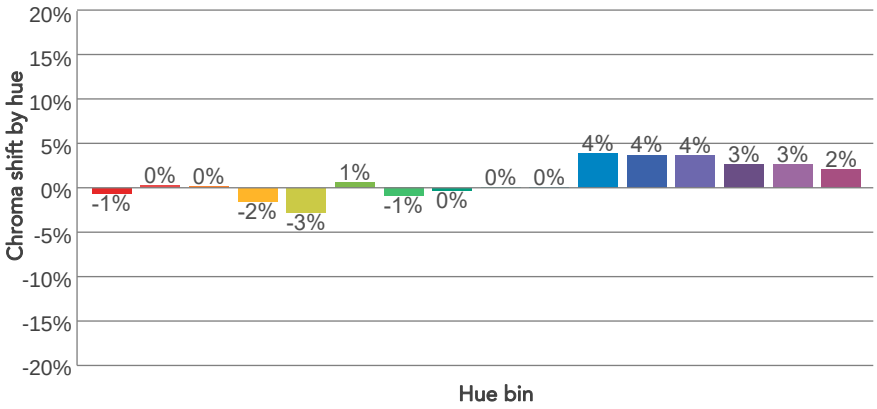
Gammut index

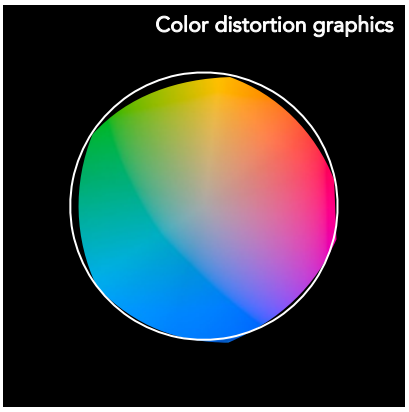
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	95	-1%	0%
2	97	0%	0%
3	96	0%	1%
4	95	-2%	0%
5	94	-3%	0%
6	96	1%	1%
7	96	-1%	2%
8	95	0%	3%
9	92	0%	6%
10	91	0%	6%
11	88	4%	7%
12	92	4%	2%
13	94	4%	-2%
14	95	3%	1%
15	91	3%	-4%
16	91	2%	-5%

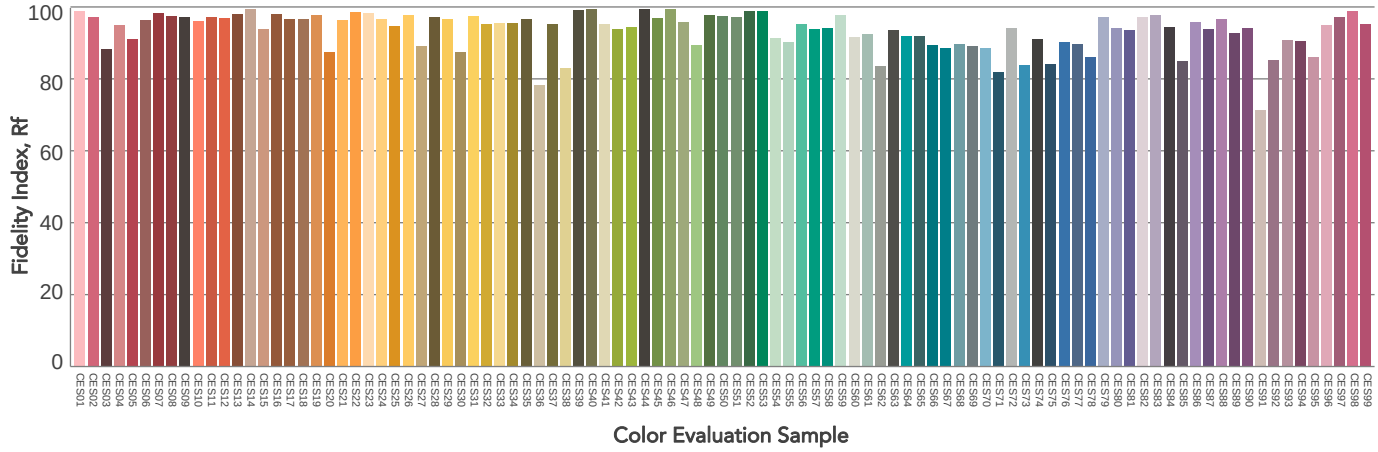












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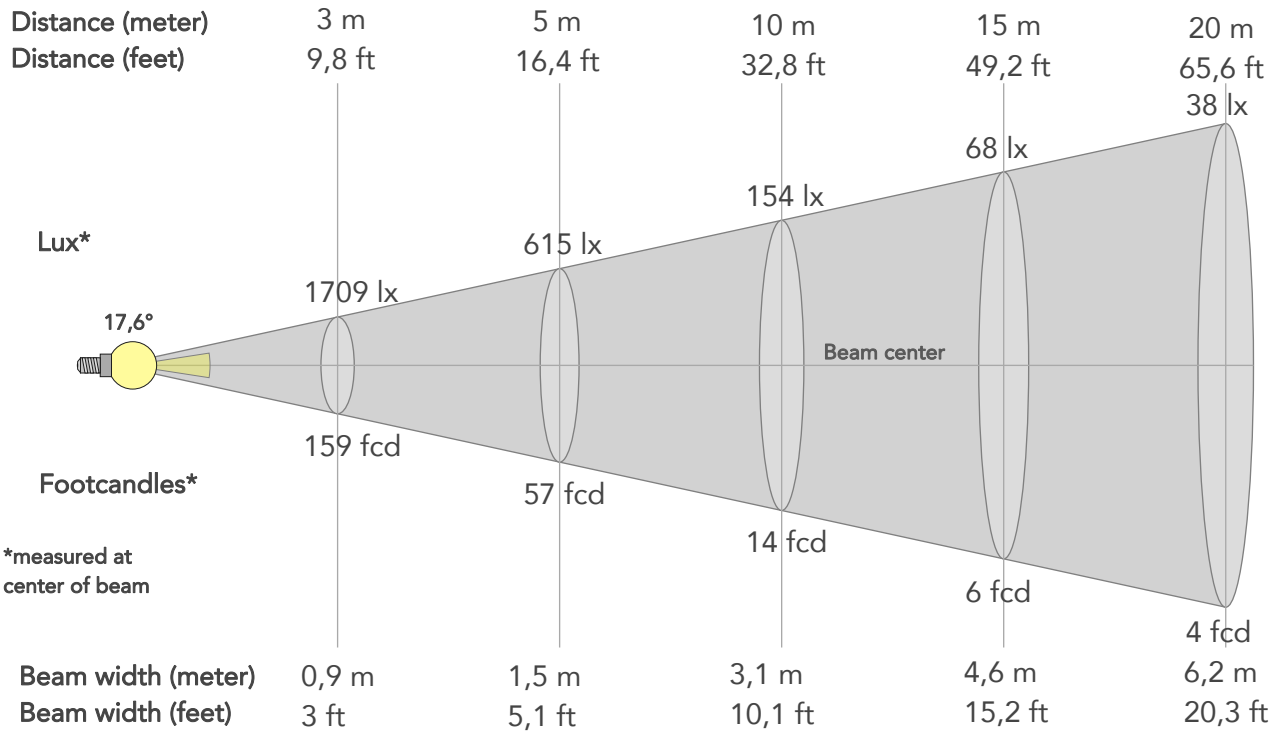
BEAM DETAILS

Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17,6°	22,3°	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	15379lx	3845lx	1709lx	961lx	615lx	273lx	154lx	68lx	38lx	25lx	17lx	10lx	6lx
Footcand.	1429fcd	357fcd	159fcd	89fcd	57fcd	25fcd	14fcd	6fcd	4fcd	2fcd	2fcd	1fcd	1fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,5m	2,3m	3,1m	4,6m	6,2m	7,7m	9,3m	12,4m	15,4m
Beam wid.	1ft	2ft	3ft	4ft	5,1ft	7,6ft	10,1ft	15,2ft	20,3ft	25,3ft	30,4ft	40,5ft	50,6ft

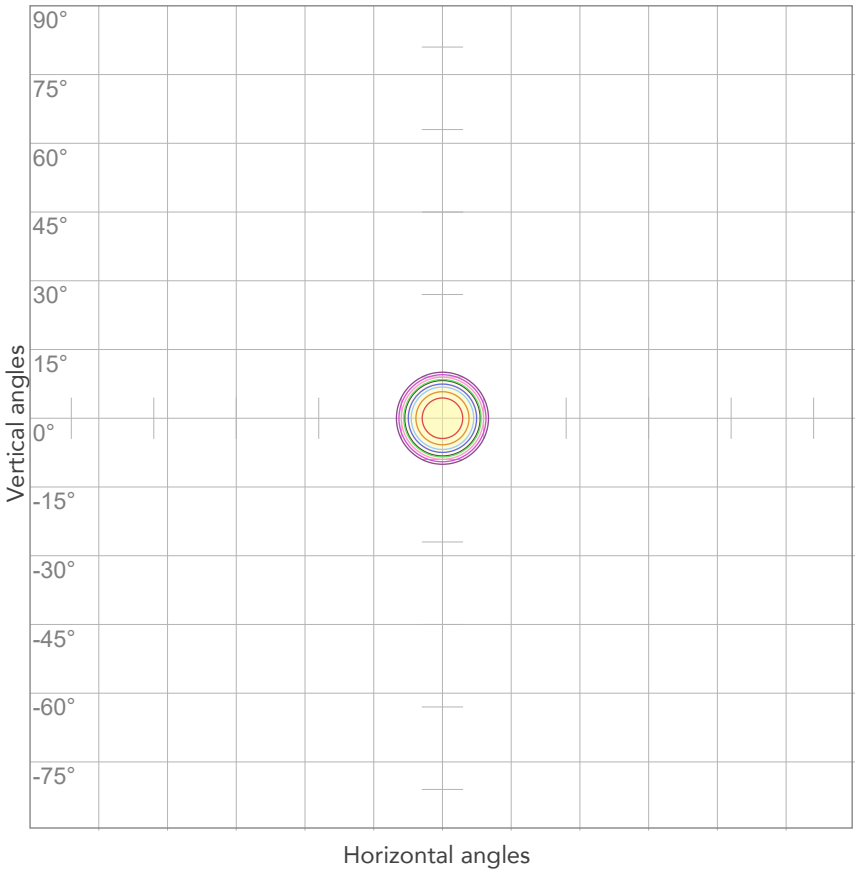
LINEAR DISTRIBUTION DIAGRAM

ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
228V	0,155A	32,4W	34lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



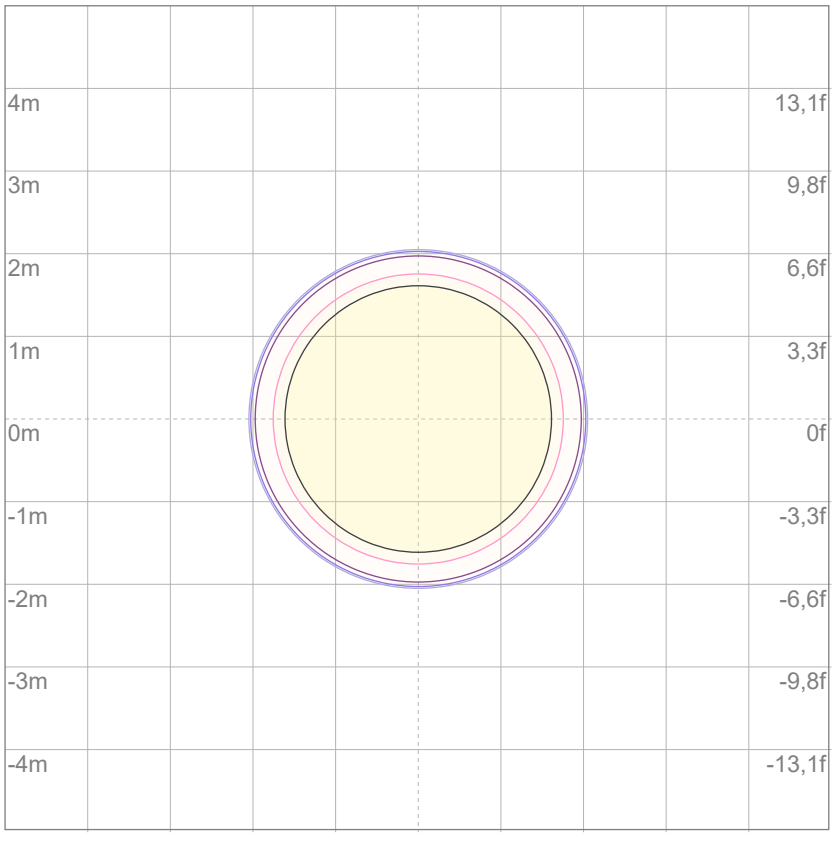
10%	1538 cd
20%	3076 cd
30%	4614 cd
40%	6152 cd
50%	7690 cd
60%	9228 cd
70%	10766 cd
80%	12303 cd

Conditions:

Number of c-planes: 2

Candela at center: 15379 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	4,61 lx
5%	7,69 lx
10%	15,4 lx
30%	46,1 lx
50%	76,9 lx

Conditions:

Number of c-planes: 2

Lux at center: 154 lx

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

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Total lumen output:

996 lm

Peak candela output:

44711 cd

Light quality:

CRI: 97,9

Color temperature:

3953 K

PRODUCT NAME:

ECLDISPLAYVW

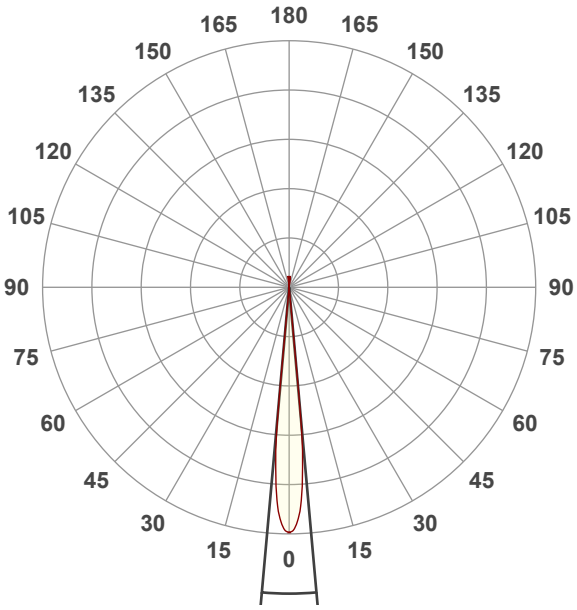
MEASURAMENT CONDITIONS:

Beam angle:
Profile 1020 Min Zoom

Target:
Full On

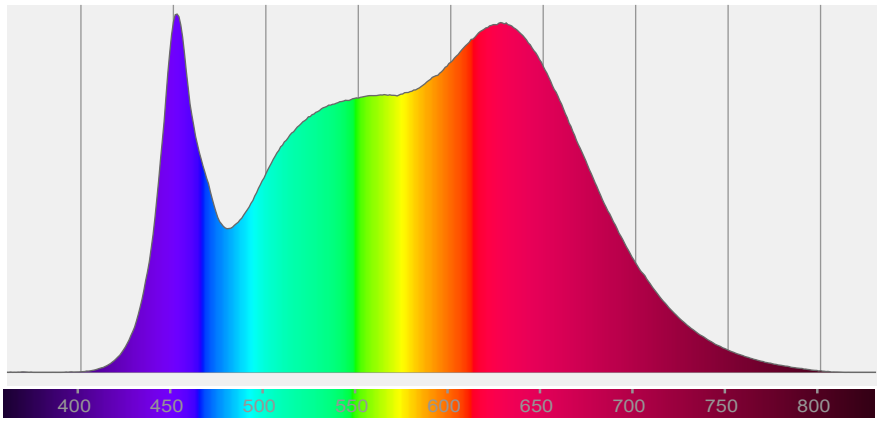
Operator:
Paolo Carvone

Date and time:
29/03/2023 09:27:56



Beam angle 50%: 10,2°
Field angle 10%: 11,7°
Cut off angle 2.5%: 11,9°

Spectra



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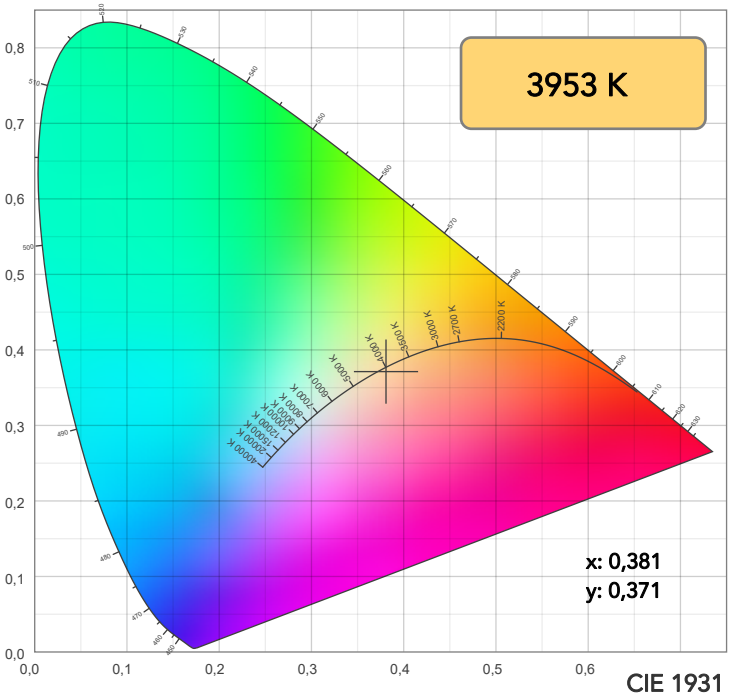
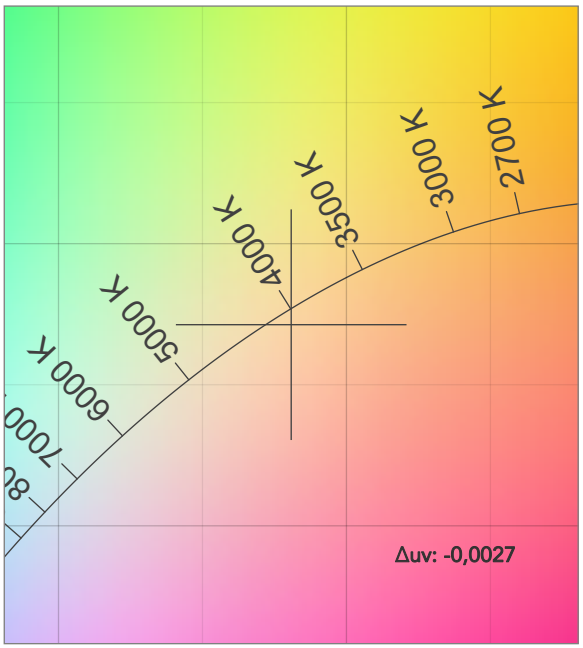
COLOR DETAILS

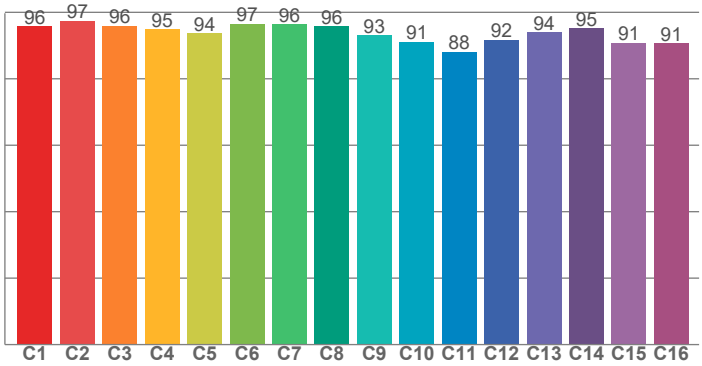


CIE 1931

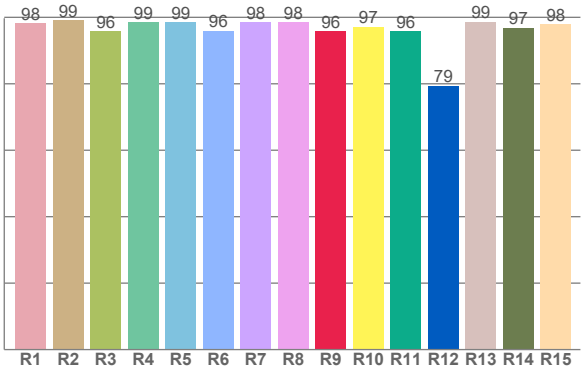


CIE 1931 ZOOM

TM30: 93,7



CRI: 97,9 (R1-R8)



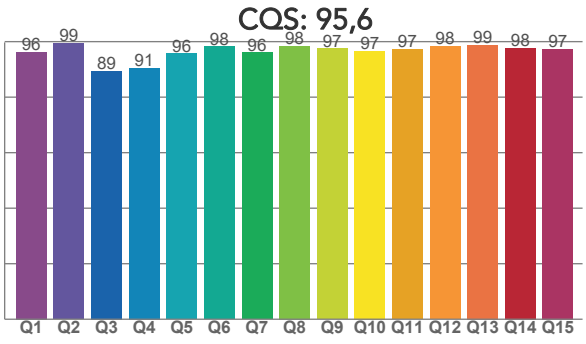
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98,2	99,2	95,8	98,5	98,6	96,0	98,5	98,4	95,7	97,1	95,9	79,4	98,6	96,8	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
95,7	97,4	95,8	94,9	93,7	96,6	96,4	95,8	93,0	91,1	88,1	91,6	93,9	95,2	90,8	90,6

CQS: 95,6



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,2	99,4	89,4	90,6	95,7	98,3	96,1	98,4	97,5	96,7	97,2	98,3	98,8	97,7	97,4

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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3953 K	97,9	95,7	93,7	101,3	95,6	97	0,381	0,371	-0,0027

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TM30 DETAILS

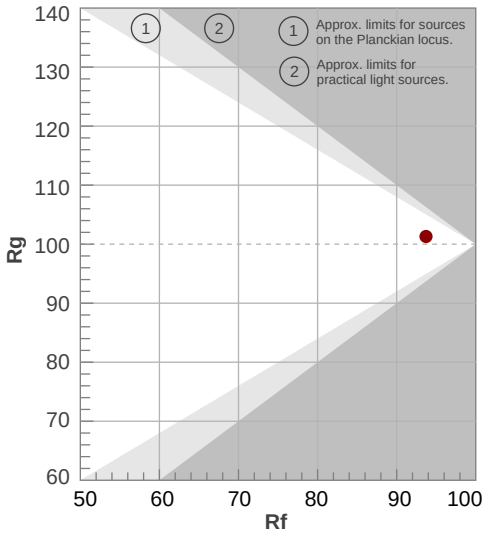
Rf 93,7

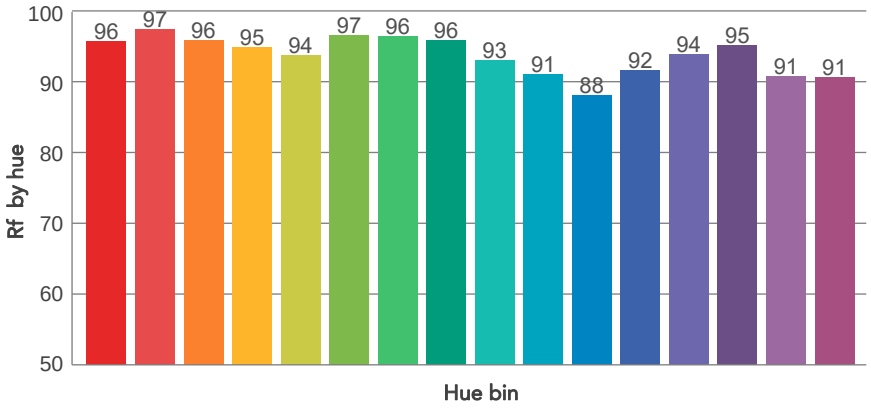
Fidelity index Rf

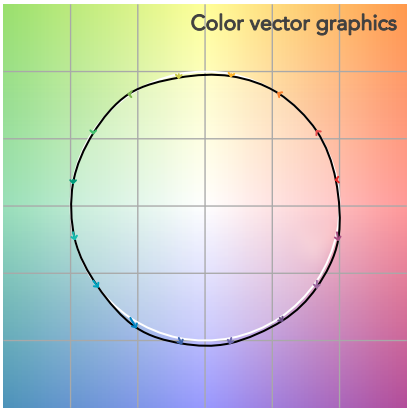
Rg 101,3

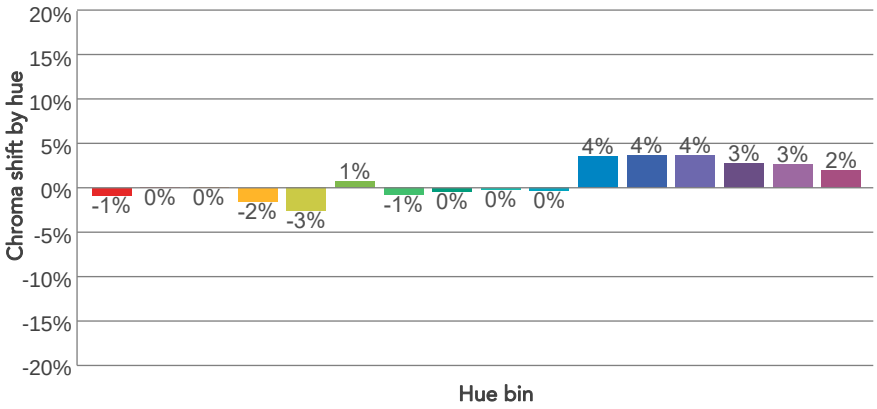
Gammut index

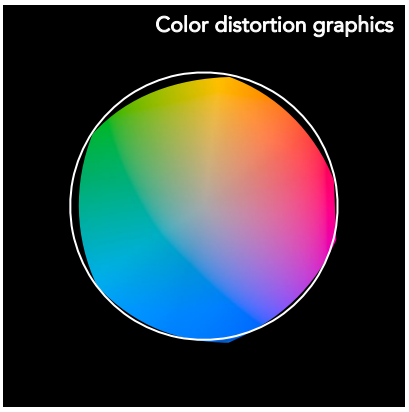
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	96	-1%	0%
2	97	0%	0%
3	96	0%	1%
4	95	-2%	0%
5	94	-3%	1%
6	97	1%	1%
7	96	-1%	1%
8	96	0%	2%
9	93	0%	5%
10	91	0%	6%
11	88	4%	7%
12	92	4%	3%
13	94	4%	-2%
14	95	3%	0%
15	91	3%	-4%
16	91	2%	-5%

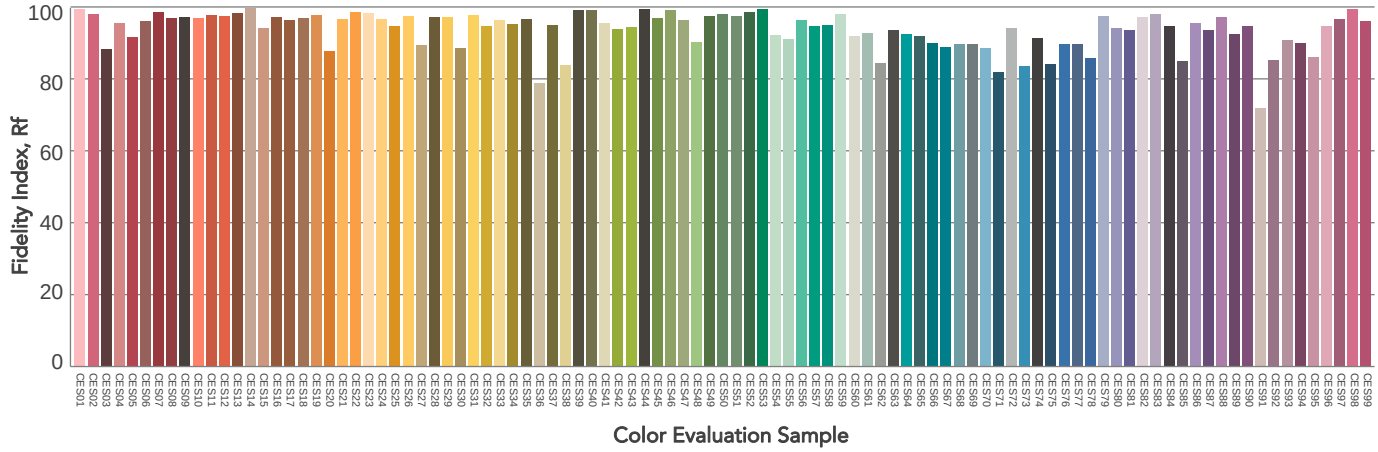












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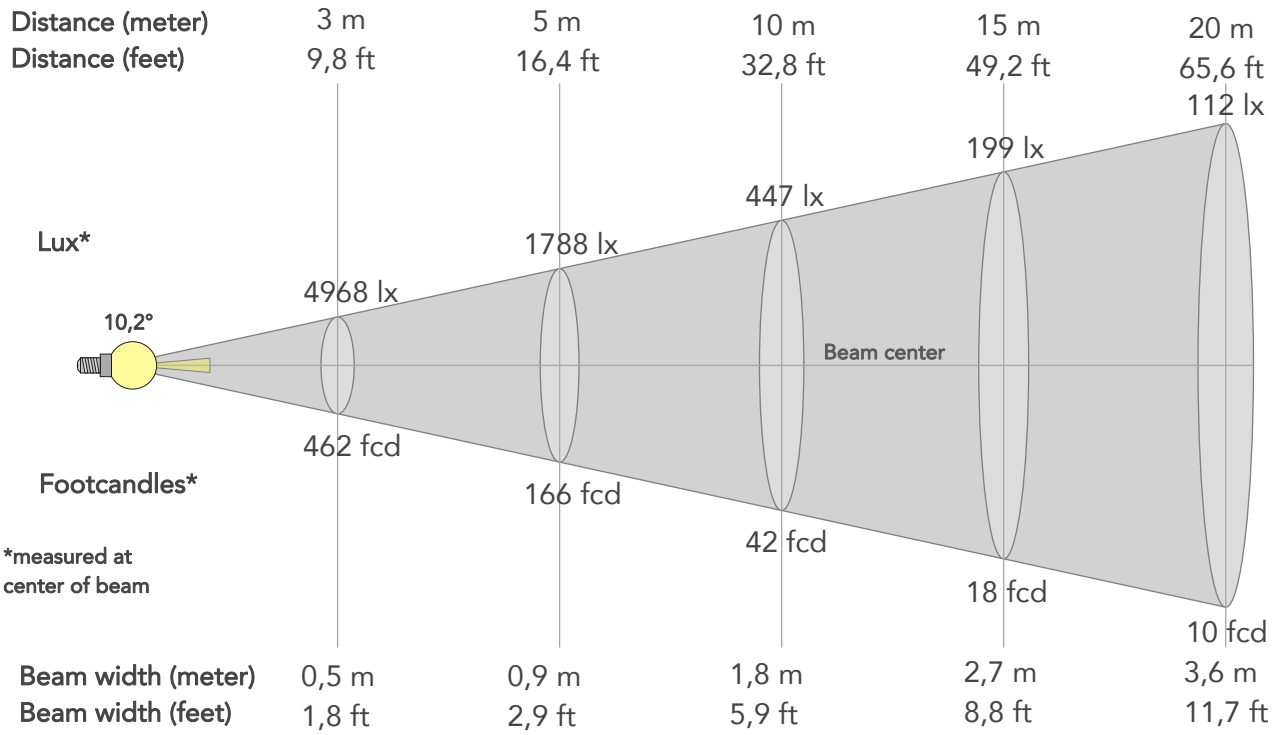
BEAM DETAILS

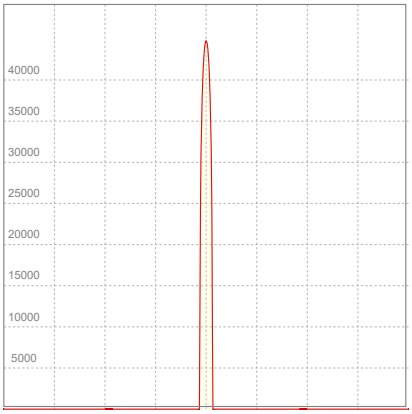
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
10,2°	11,7°	11,9°	100,0%	100,0%



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	44711lx	11178lx	4968lx	2794lx	1788lx	795lx	447lx	199lx	112lx	72lx	50lx	28lx	18lx
Footcand.	4154fcd	1038fcd	462fcd	260fcd	166fcd	74fcd	42fcd	18fcd	10fcd	7fcd	5fcd	3fcd	2fcd
Beam wid.	0,2m	0,4m	0,5m	0,7m	0,9m	1,3m	1,8m	2,7m	3,6m	4,5m	5,4m	7,2m	9m
Beam wid.	0,6ft	1,2ft	1,8ft	2,3ft	2,9ft	4,4ft	5,9ft	8,8ft	11,7ft	14,7ft	17,6ft	23,5ft	29,4ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,157A	32,6W	31lm/W

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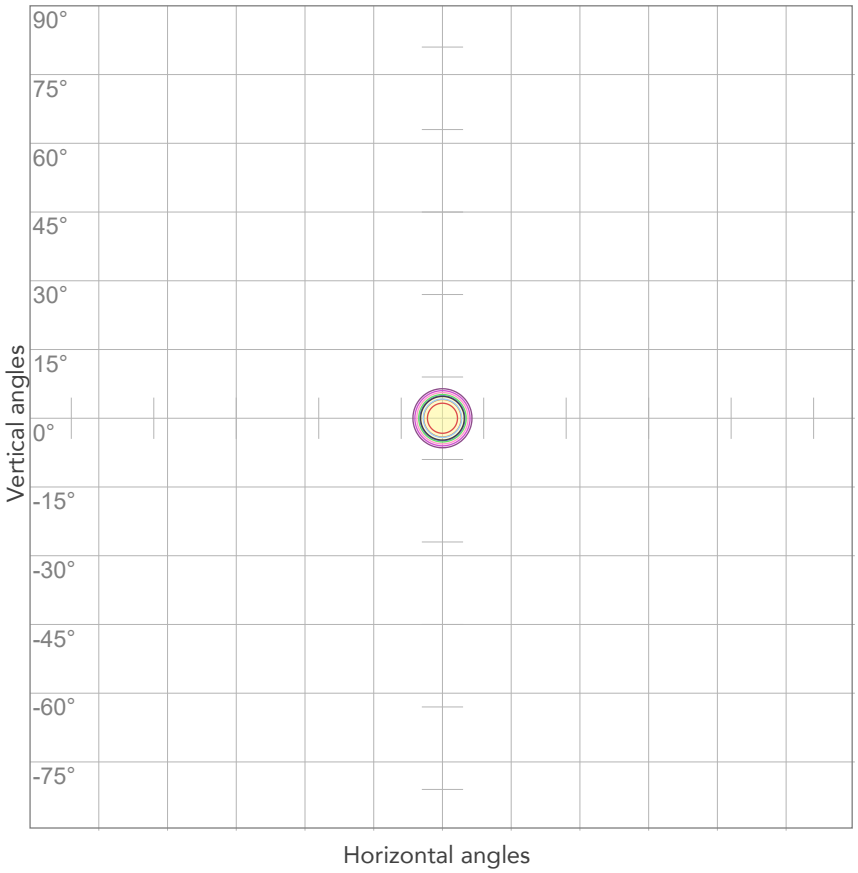
ISO DIAGRAMS

ISO CANDELA DIAGRAM



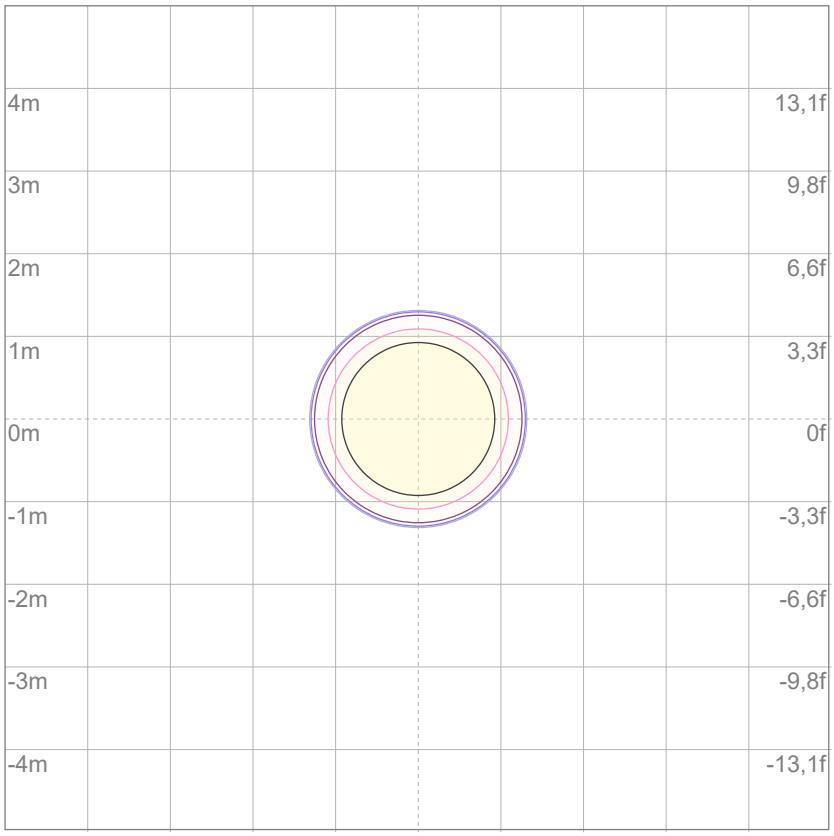
10%	4471 cd
20%	8942 cd
30%	13413 cd
40%	17884 cd
50%	22355 cd
60%	26827 cd
70%	31298 cd
80%	35769 cd

Conditions:

Number of c-planes: 2

Candela at center: 44711 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	13,4 lx
5%	22,4 lx
10%	44,7 lx
30%	134 lx
50%	224 lx

Conditions:

Number of c-planes: 2

Lux at center: 447 lx

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

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Total lumen output:

838 lm

Peak candela output:

12259 cd

Light quality:

CRI: 96,1

Color temperature:

2775 K

PRODUCT NAME:

ECLDISPLAYVW

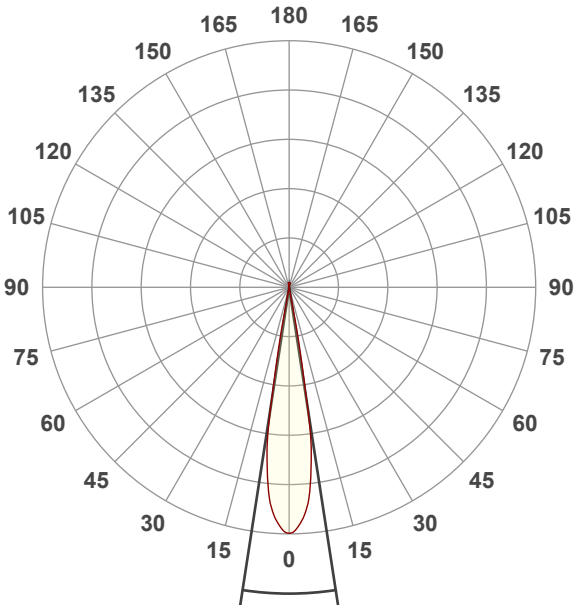
MEASURAMENT CONDITIONS:

Beam angle:
Profile 1020 Max Zoom

Target:
Warm White

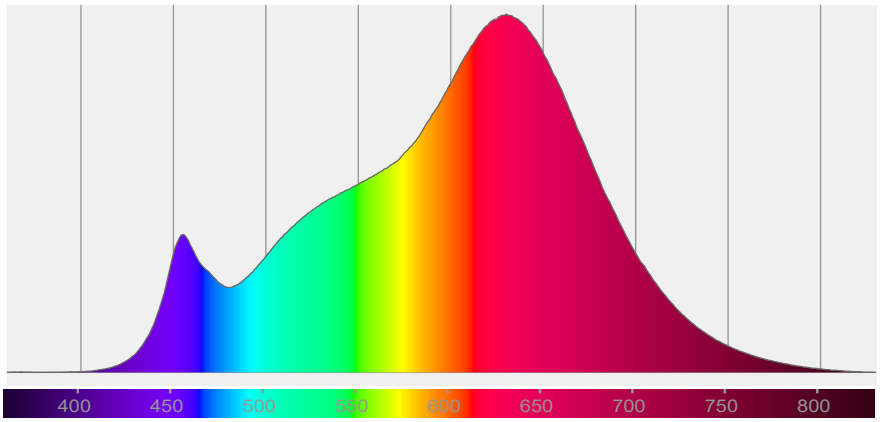
Operator:
Paolo Carvone

Date and time:
29/03/2023 12:15:11



Beam angle 50%: 17,5°
Field angle 10%: 21,5°
Cut off angle 2.5%: 22,4°

Spectra



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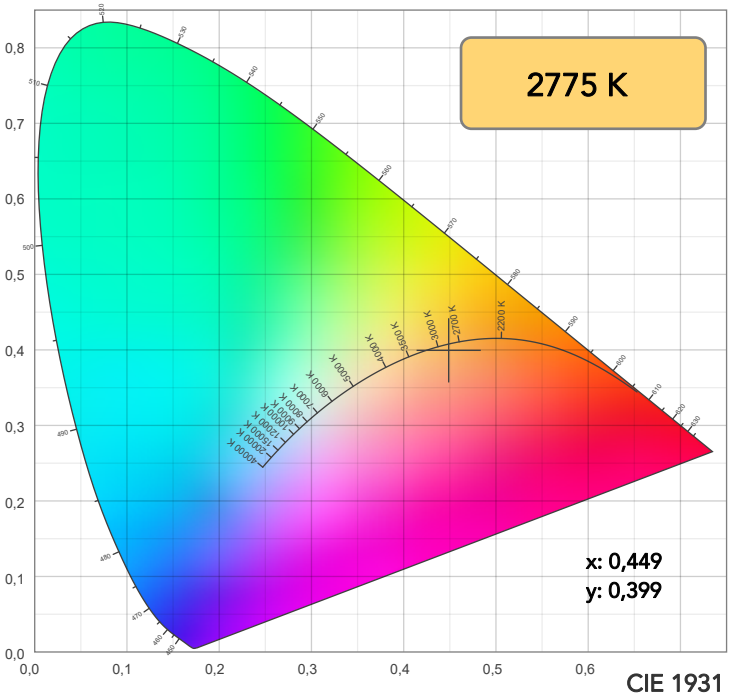
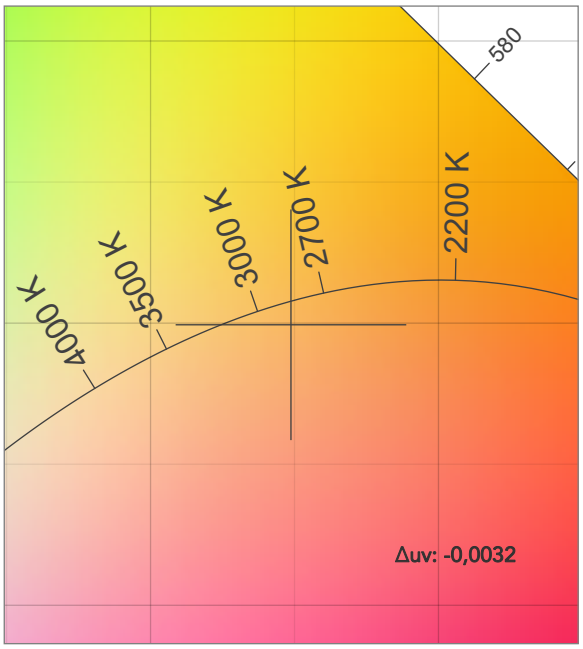
COLOR DETAILS

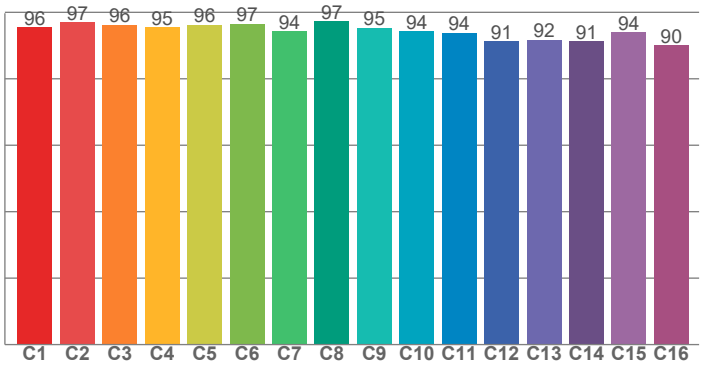


CIE 1931

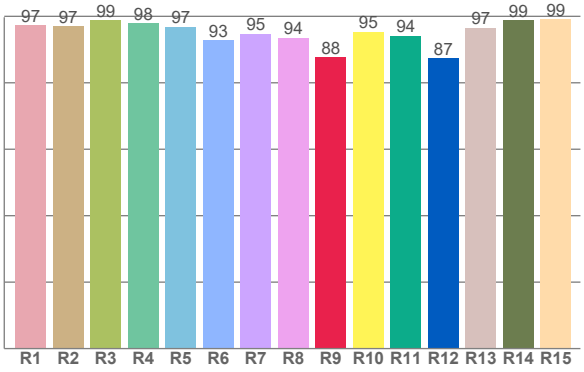


CIE 1931 ZOOM

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
97,3	97,0	98,7	98,0	96,9	92,9	94,7	93,5	87,6	95,3	94,1	87,3	96,5	98,9	99,1

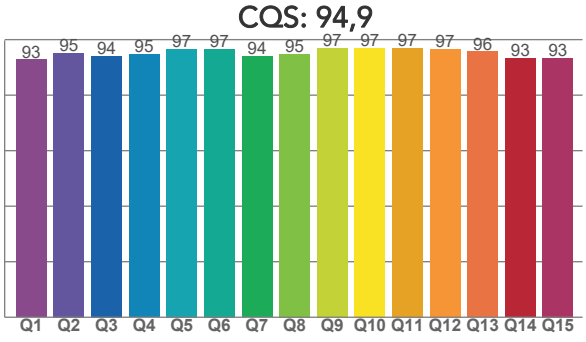
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

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

CQS: 94,9



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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2775 K	96,1	87,6	94,6	101,2	94,9	96	0,449	0,399	-0,0032

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TM30 DETAILS

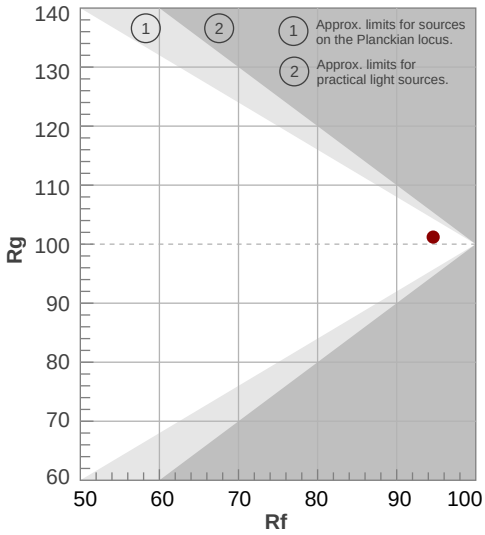
Rf 94,6

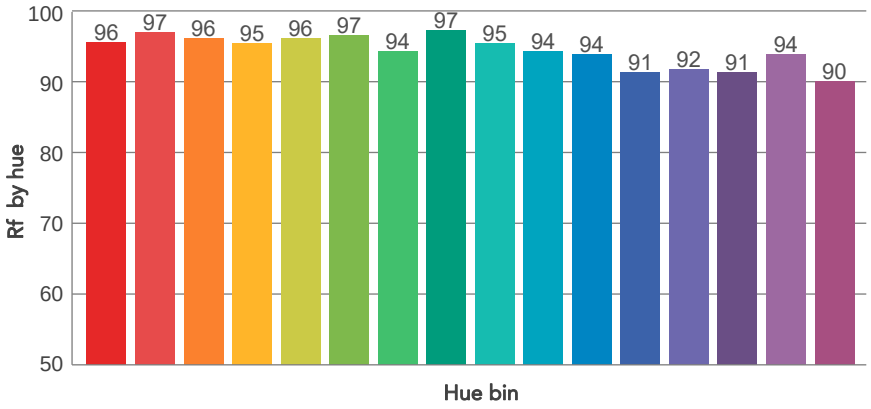
Fidelity index Rf

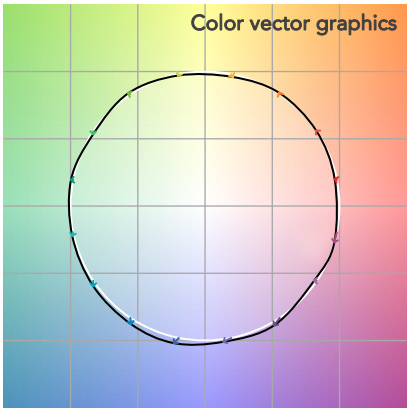
Rg 101,2

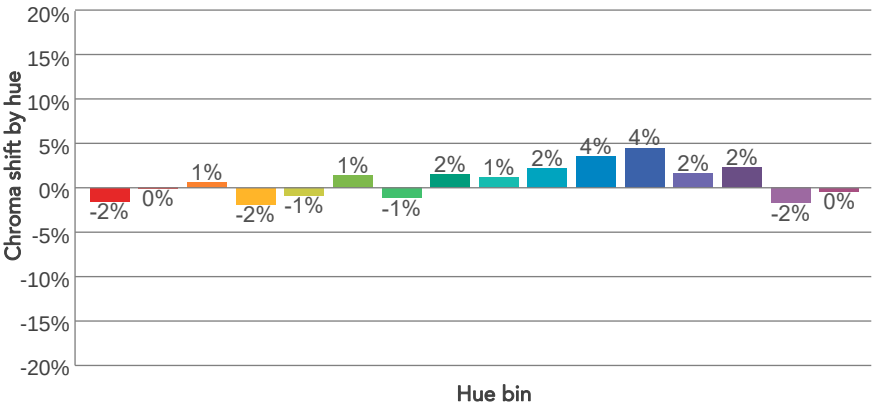
Gammut index

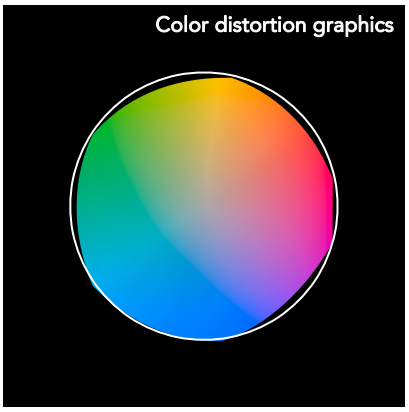
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	96	-2%	1%
2	97	0%	1%
3	96	1%	1%
4	95	-2%	-2%
5	96	-1%	1%
6	97	1%	1%
7	94	-1%	2%
8	97	2%	0%
9	95	1%	3%
10	94	2%	3%
11	94	4%	3%
12	91	4%	-3%
13	92	2%	-6%
14	91	2%	-7%
15	94	-2%	-1%
16	90	0%	-8%

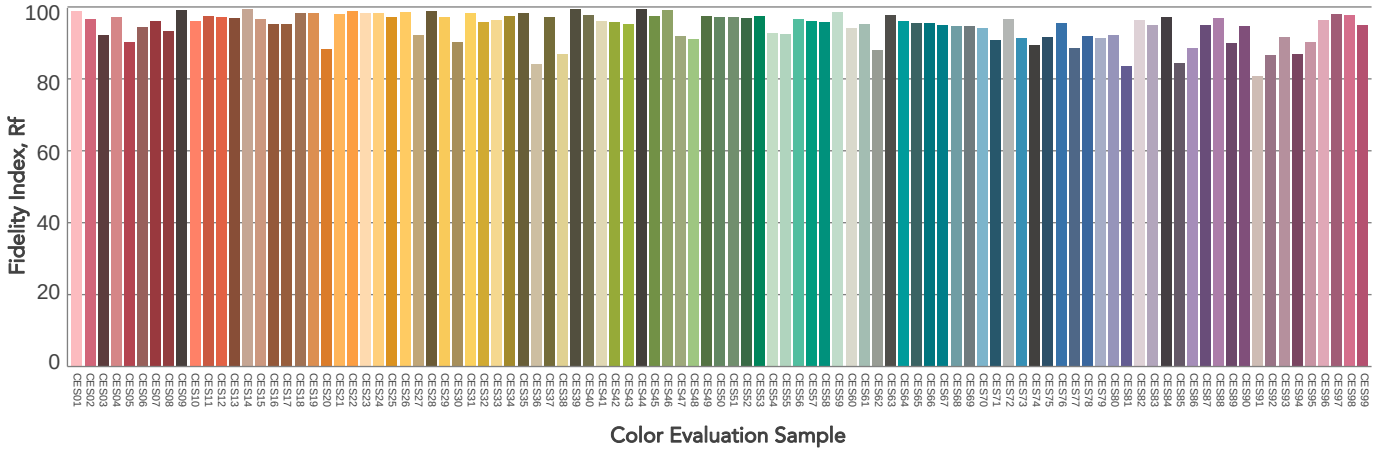












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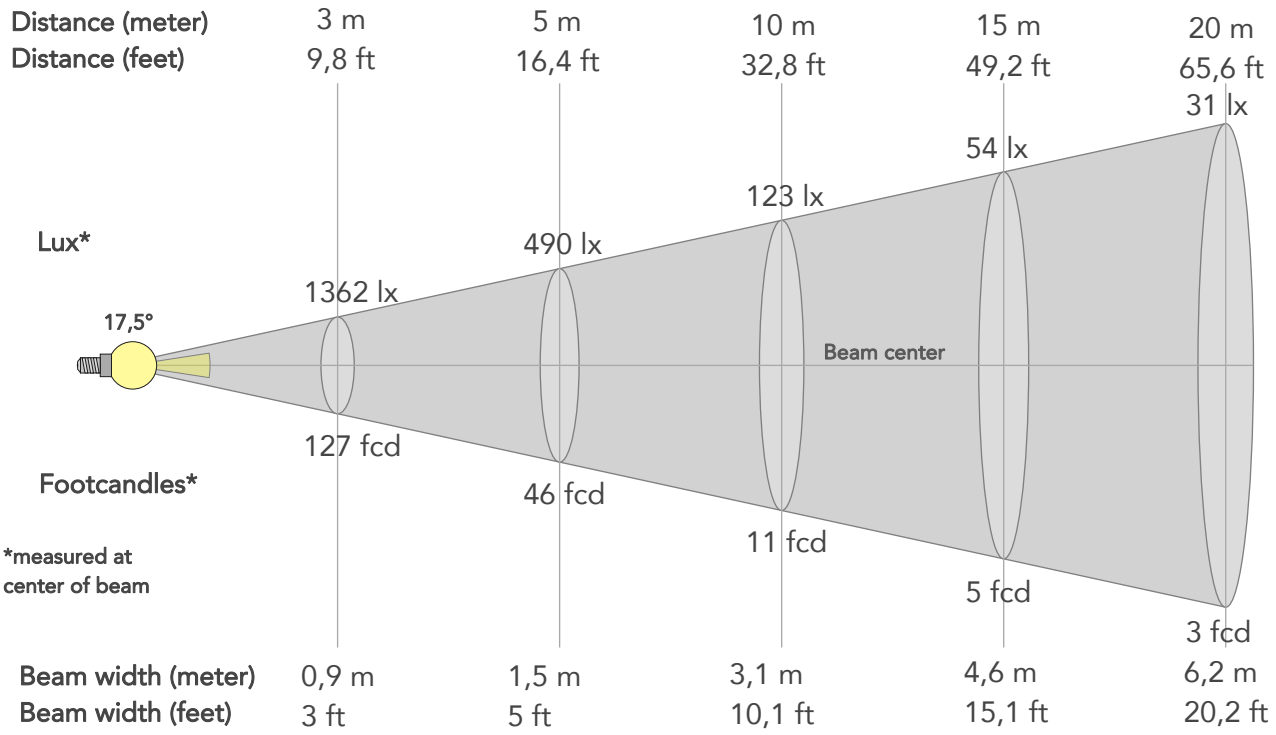
BEAM DETAILS

Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17,5°	21,5°	22,4°	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	12259lx	3065lx	1362lx	766lx	490lx	218lx	123lx	54lx	31lx	20lx	14lx	8lx	5lx
Footcand.	1139fcd	285fcd	127fcd	71fcd	46fcd	20fcd	11fcd	5fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,5m	2,3m	3,1m	4,6m	6,2m	7,7m	9,2m	12,3m	15,4m
Beam wid.	1ft	2ft	3ft	4ft	5ft	7,6ft	10,1ft	15,1ft	20,2ft	25,2ft	30,3ft	40,4ft	50,5ft

LINEAR DISTRIBUTION DIAGRAM

ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
228V	0,151A	31,6W	27lm/W

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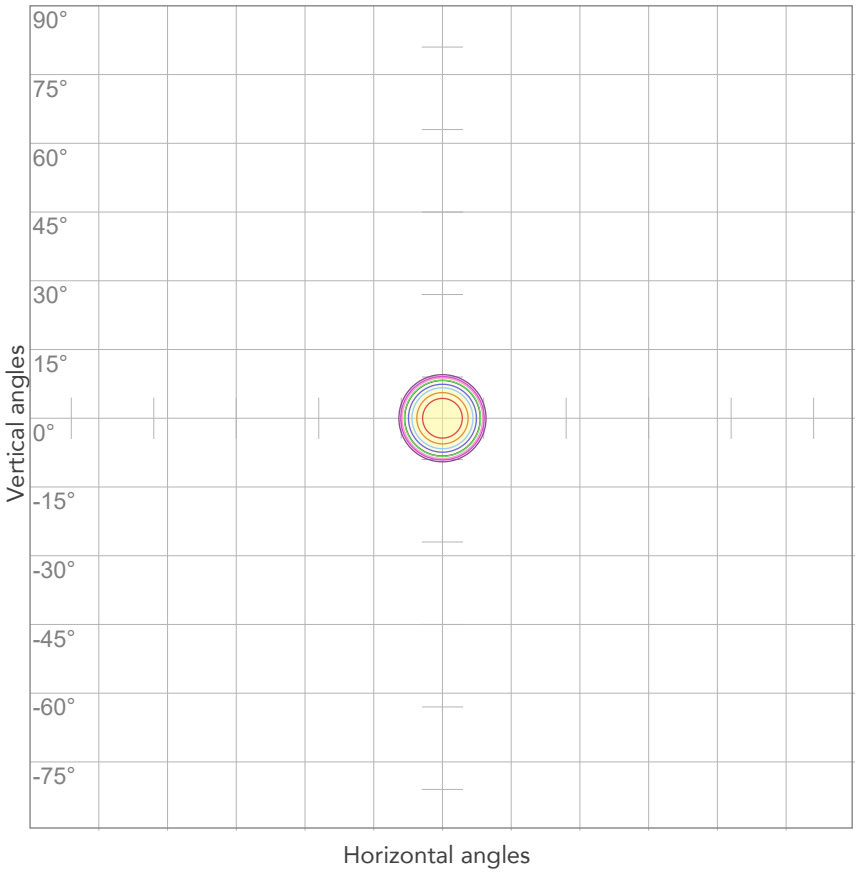
ISO DIAGRAMS

ISO CANDELA DIAGRAM



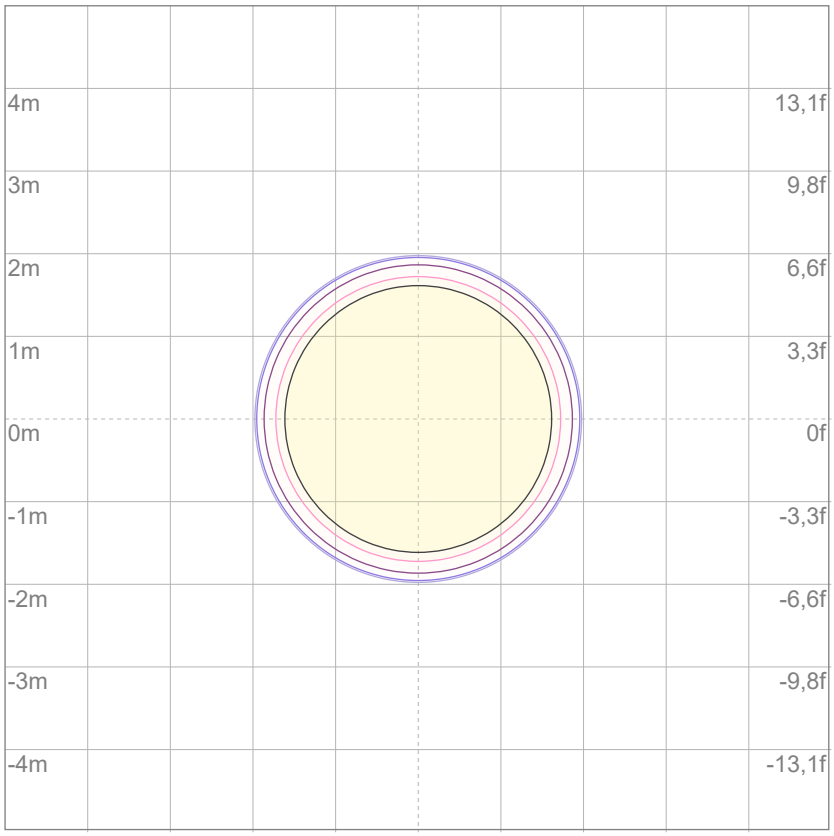
10%	1226 cd
20%	2452 cd
30%	3678 cd
40%	4903 cd
50%	6129 cd
60%	7355 cd
70%	8581 cd
80%	9807 cd

Conditions:

Number of c-planes: 2

Candela at center: 12259 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	3,68 lx
5%	6,13 lx
10%	12,3 lx
30%	36,8 lx
50%	61,3 lx

Conditions:

Number of c-planes: 2

Lux at center: 123 lx

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

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Total lumen output:

696 lm

Peak candela output:

33602 cd

Light quality:

CRI: 96,3

Color temperature:

2732 K

PRODUCT NAME:

ECLDISPLAYVW

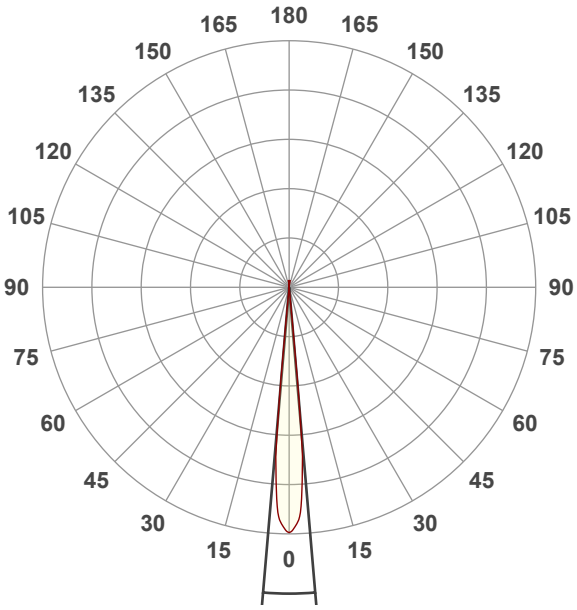
MEASURAMENT CONDITIONS:

Beam angle:
Profile 1020 Min Zoom

Target:
Warm White

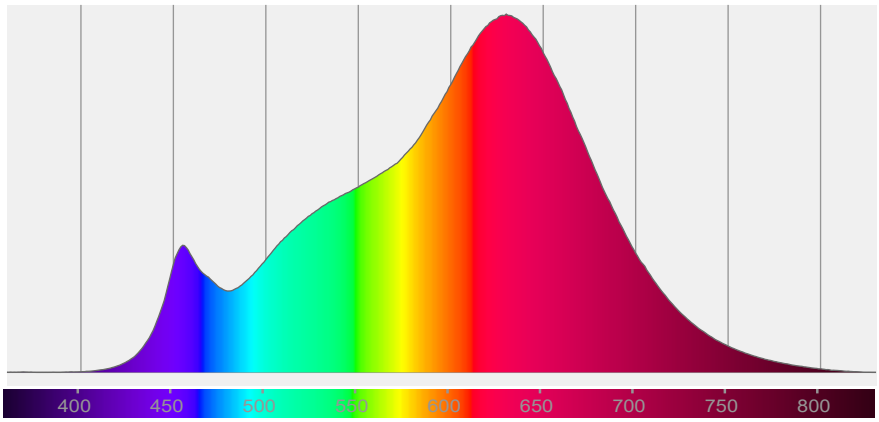
Operator:
Paolo Carvone

Date and time:
29/03/2023 12:10:47

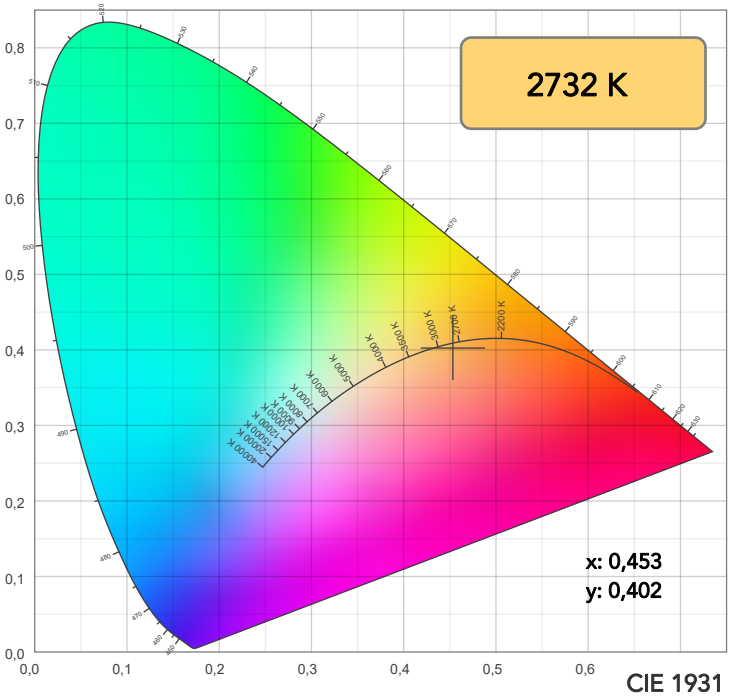


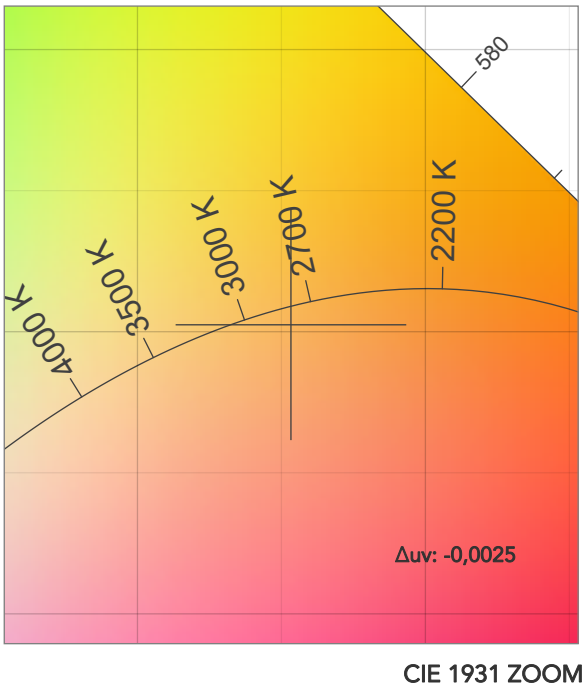
Beam angle 50%: 9,8°
Field angle 10%: 11°
Cut off angle 2.5%: 11,2°

Spectra

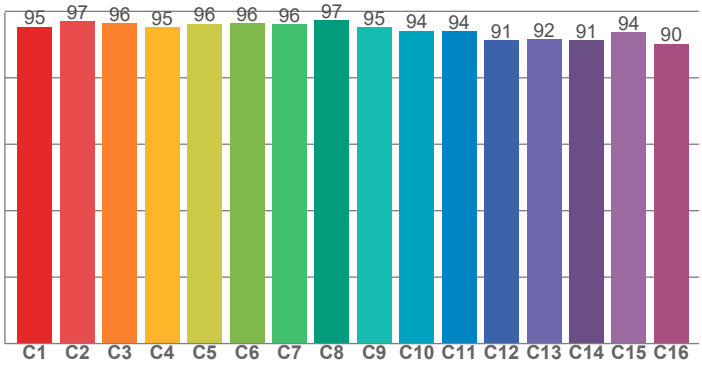


COLOR DETAILS

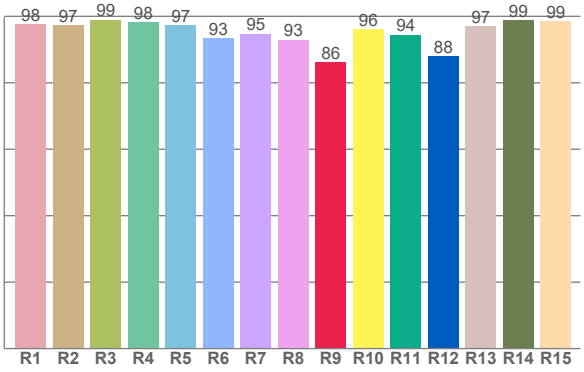




TM30: 94,6



CRI: 96,3 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97,7	97,4	99,0	98,3	97,3	93,4	94,7	93,0	86,2	96,2	94,5	87,9	97,0	98,8	98,6

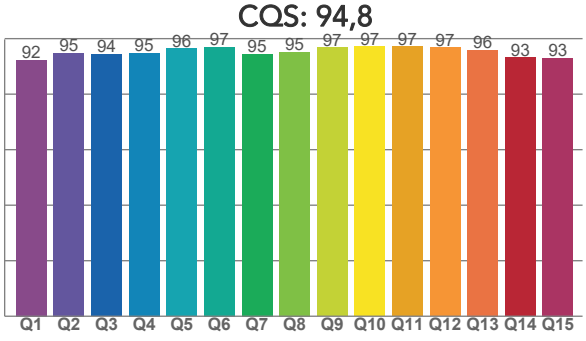
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

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

CQS: 94,8



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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2732 K	96,3	86,2	94,6	100,8	94,8	96	0,453	0,402	-0,0025

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TM30 DETAILS

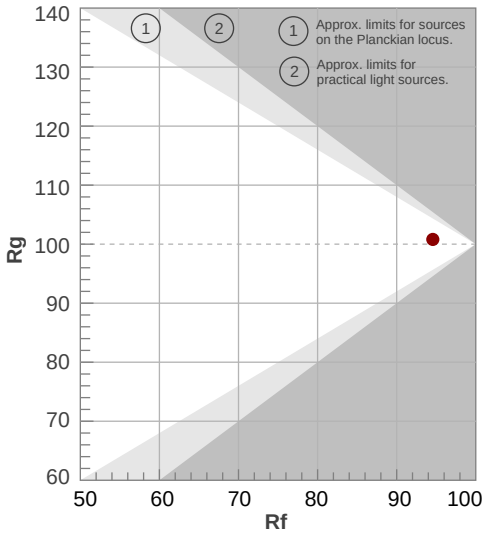
Rf 94,6

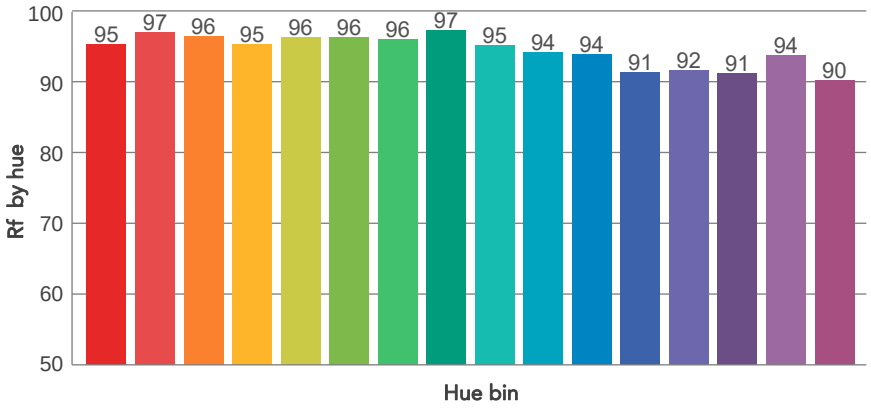
Fidelity index Rf

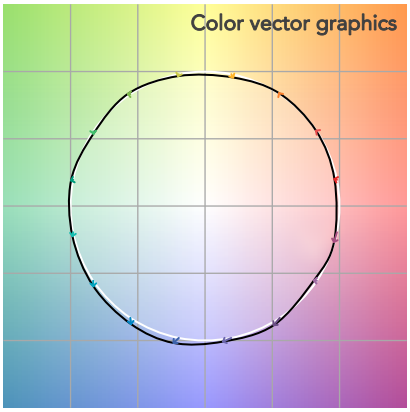
Rg 100,8

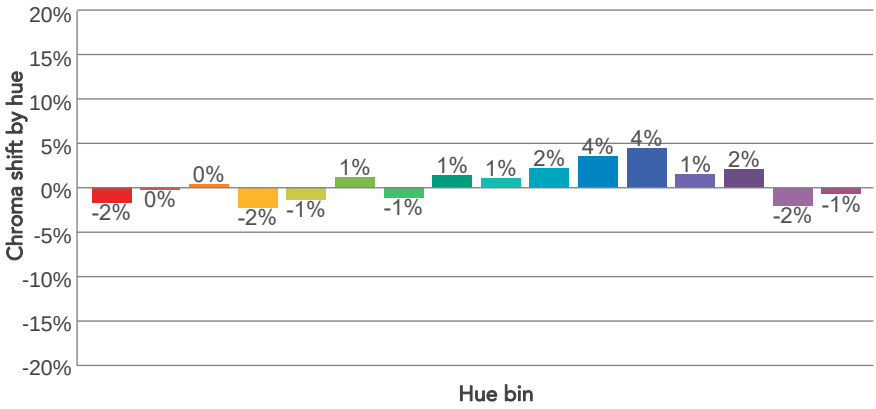
Gamut index

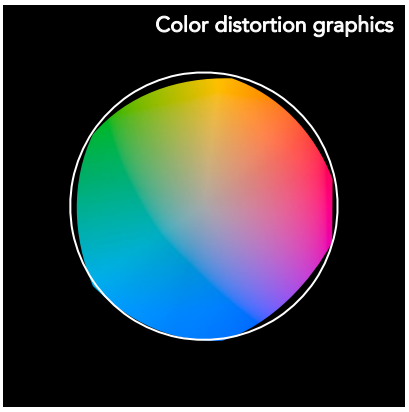
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	95	-2%	1%
2	97	0%	1%
3	96	0%	1%
4	95	-2%	-2%
5	96	-1%	1%
6	96	1%	1%
7	96	-1%	1%
8	97	1%	1%
9	95	1%	3%
10	94	2%	3%
11	94	4%	3%
12	91	4%	-3%
13	92	1%	-7%
14	91	2%	-7%
15	94	-2%	-1%
16	90	-1%	-8%

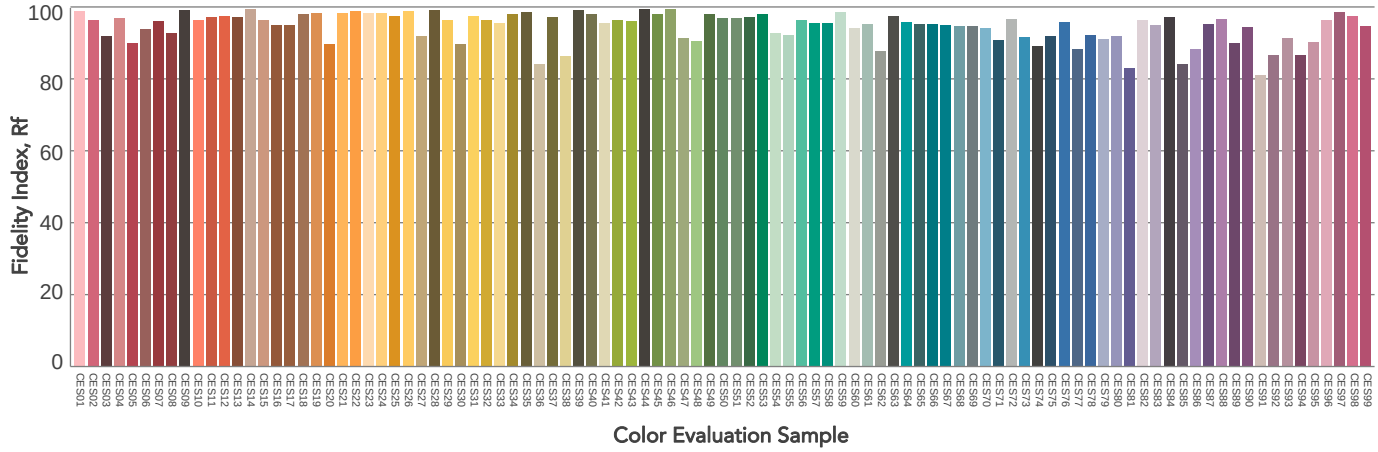












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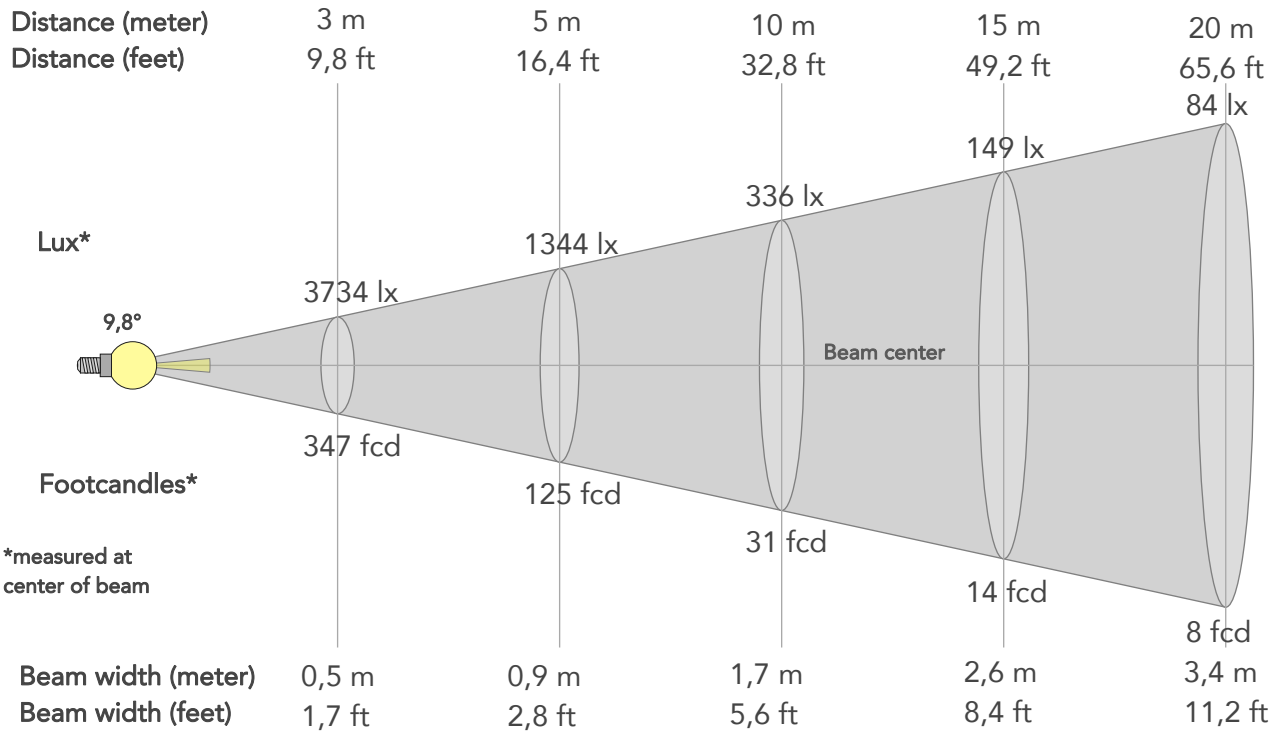
BEAM DETAILS

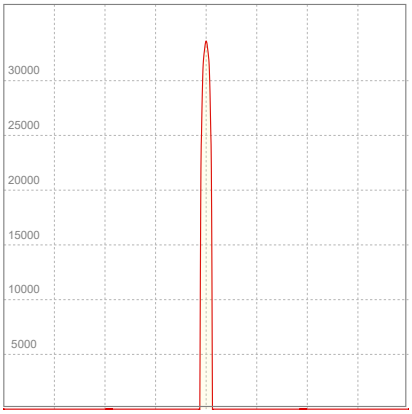
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
9,8°	11°	11,2°	100,0%	100,0%



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	33602lx	8400lx	3734lx	2100lx	1344lx	597lx	336lx	149lx	84lx	54lx	37lx	21lx	13lx
Footcand.	3122fcd	780fcd	347fcd	195fcd	125fcd	55fcd	31fcd	14fcd	8fcd	5fcd	3fcd	2fcd	1fcd
Beam wid.	0,2m	0,3m	0,5m	0,7m	0,9m	1,3m	1,7m	2,6m	3,4m	4,3m	5,1m	6,8m	8,5m
Beam wid.	0,6ft	1,1ft	1,7ft	2,2ft	2,8ft	4,2ft	5,6ft	8,4ft	11,2ft	14ft	16,8ft	22,4ft	28ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
229V	0,151A	31,6W	22lm/W

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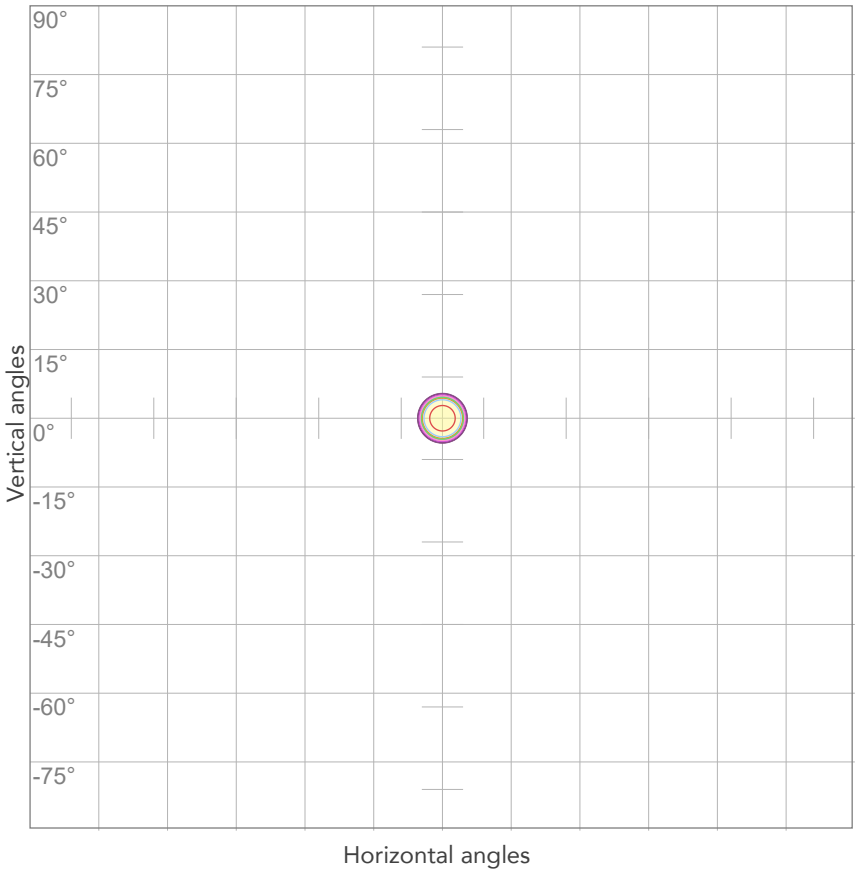
ISO DIAGRAMS

ISO CANDELA DIAGRAM



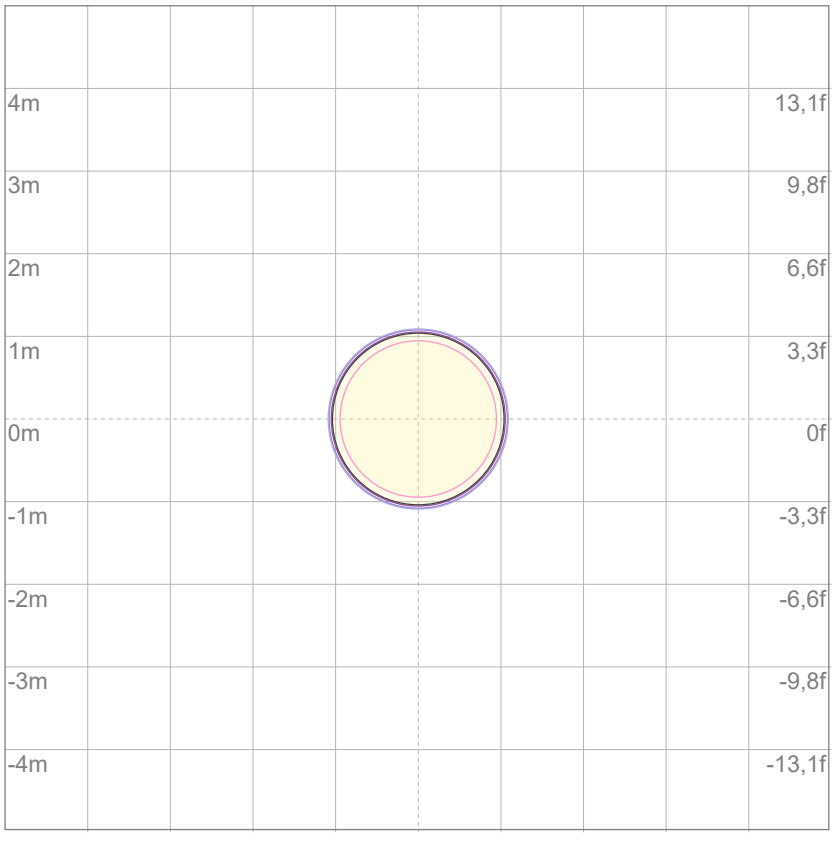
10%	3360 cd
20%	6720 cd
30%	10080 cd
40%	13441 cd
50%	16801 cd
60%	20161 cd
70%	23521 cd
80%	26881 cd

Conditions:

Number of c-planes: 2

Candela at center: 33602 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	10,1 lx
5%	16,8 lx
10%	33,6 lx
30%	101 lx
50%	168 lx

Conditions:

Number of c-planes: 2

Lux at center: 336 lx

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

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Total lumen output:

1168 lm

Peak candela output:

16790 cd

Light quality:

CRI: 96,6

Color temperature:

5569 K

PRODUCT NAME:

ECLDISPLAYVW

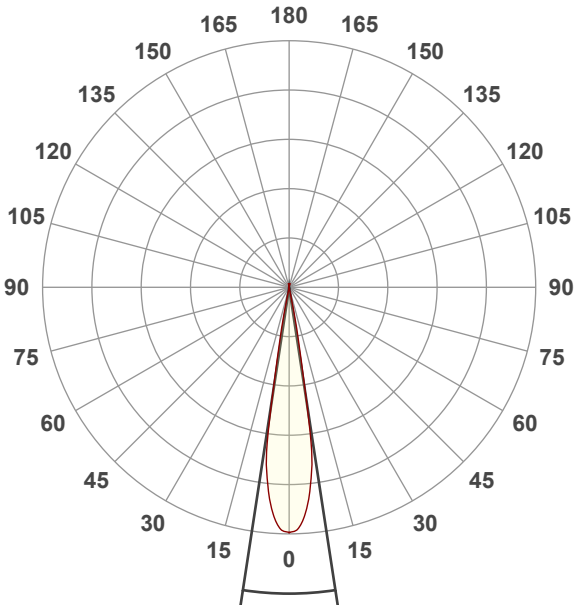
MEASURAMENT CONDITIONS:

Beam angle:
Profile 1020 Max Zoom

Target:
Cold White

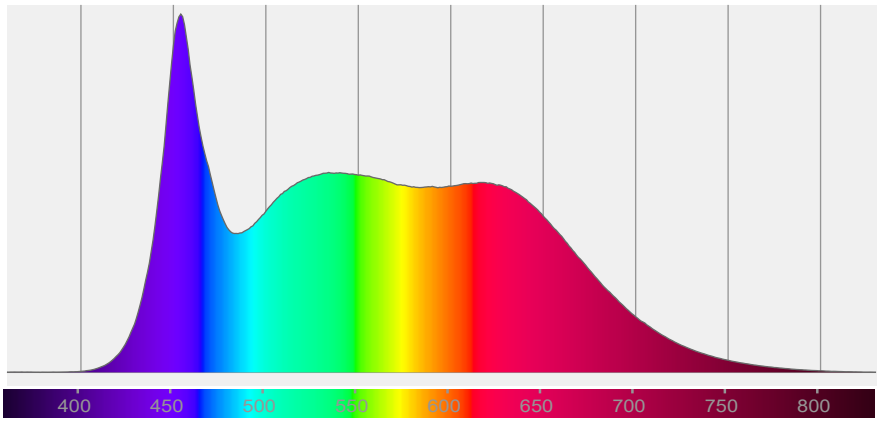
Operator:
Paolo Carvone

Date and time:
29/03/2023 12:13:52

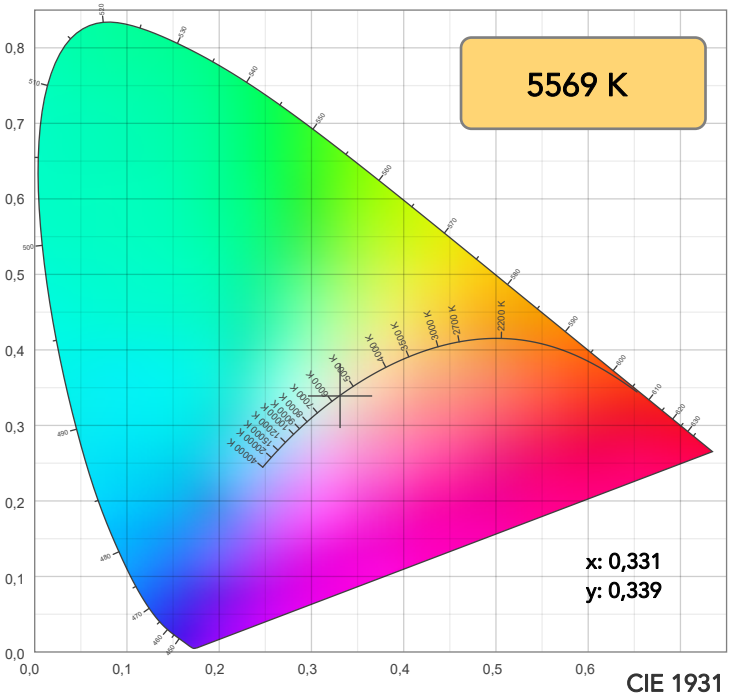


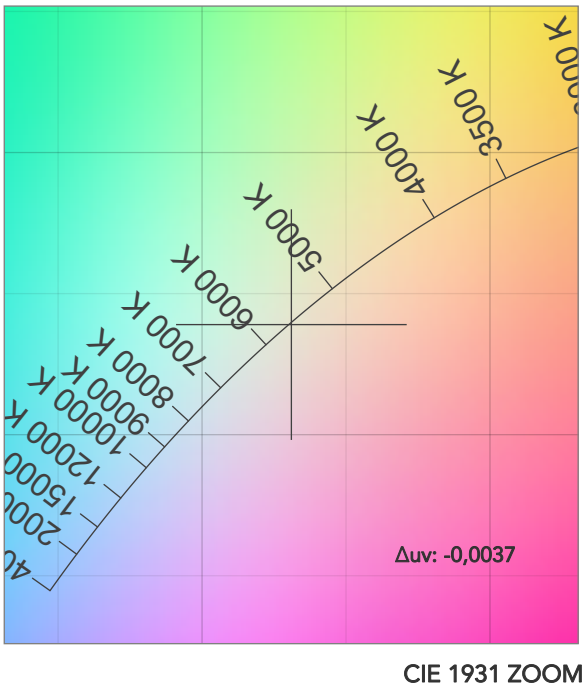
Beam angle 50%: 17,4°
Field angle 10%: 22,2°
Cut off angle 2.5%: 23,6°

Spectra

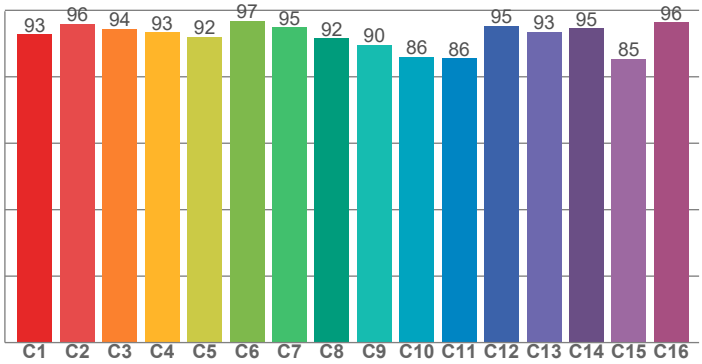


COLOR DETAILS

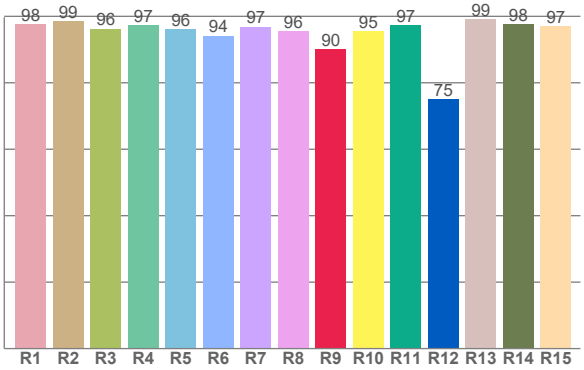




TM30: 92,1



CRI: 96,6 (R1-R8)



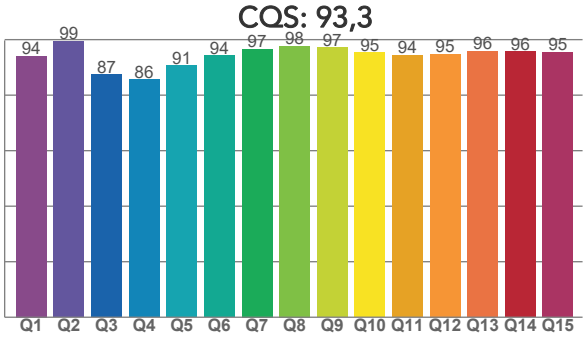
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97,6	98,6	96,2	97,4	96,1	94,1	96,9	95,6	90,0	95,5	97,3	75,0	99,1	97,6	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
92,7	96,0	94,4	93,4	92,0	96,8	94,9	91,6	89,7	86,0	85,6	95,4	93,5	94,6	85,4	96,4

CQS: 93,3



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,2	99,4	87,4	85,7	90,7	94,3	96,7	97,7	97,2	95,3	94,3	94,9	95,8	95,7	95,4

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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5569 K	96,6	90,0	92,1	99,6	93,3	97	0,331	0,339	-0,0037

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TM30 DETAILS

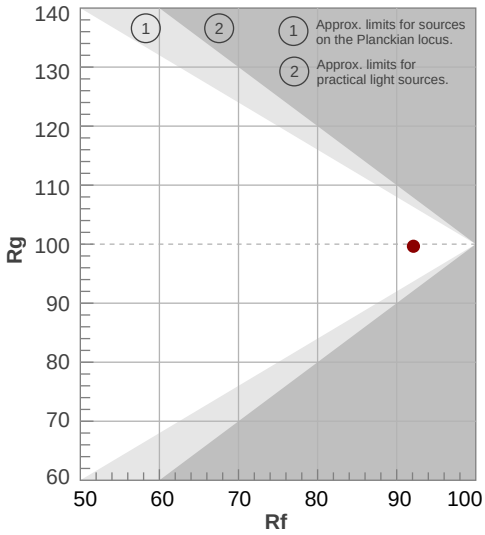
Rf 92,1

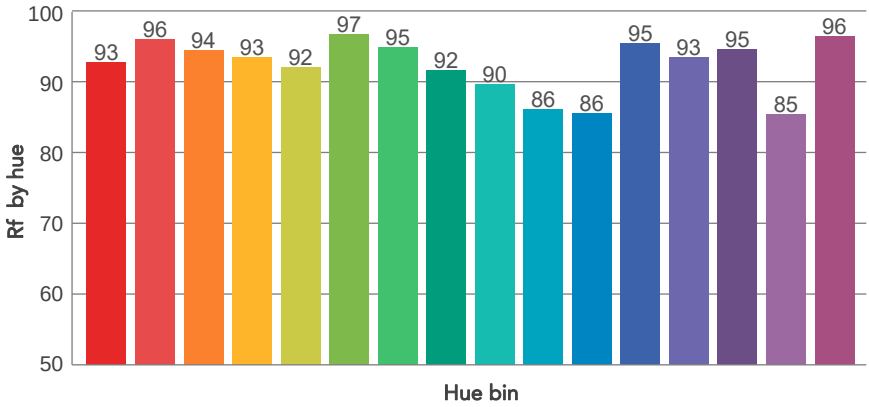
Fidelity index Rf

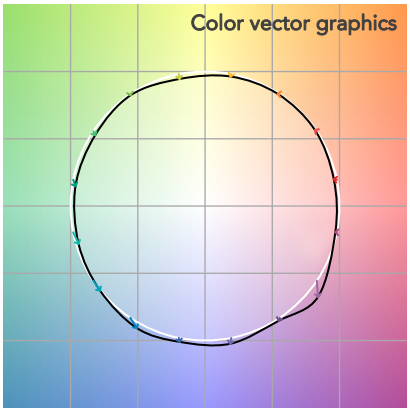
Rg 99,6

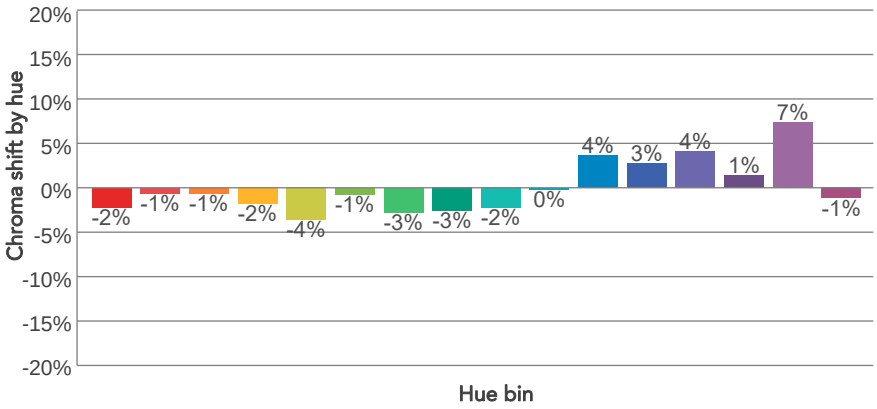
Gammut index

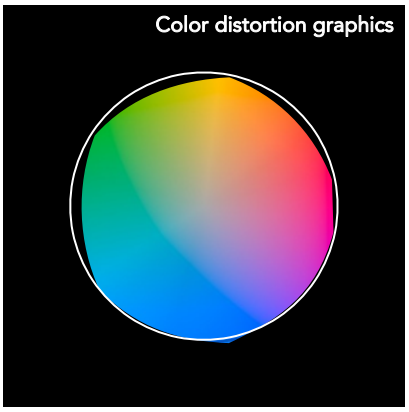
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	93	-2%	1%
2	96	-1%	2%
3	94	-1%	1%
4	93	-2%	0%
5	92	-4%	0%
6	97	-1%	0%
7	95	-3%	1%
8	92	-3%	4%
9	90	-2%	9%
10	86	0%	9%
11	86	4%	8%
12	95	3%	1%
13	93	4%	-2%
14	95	1%	-2%
15	85	7%	-9%
16	96	-1%	0%

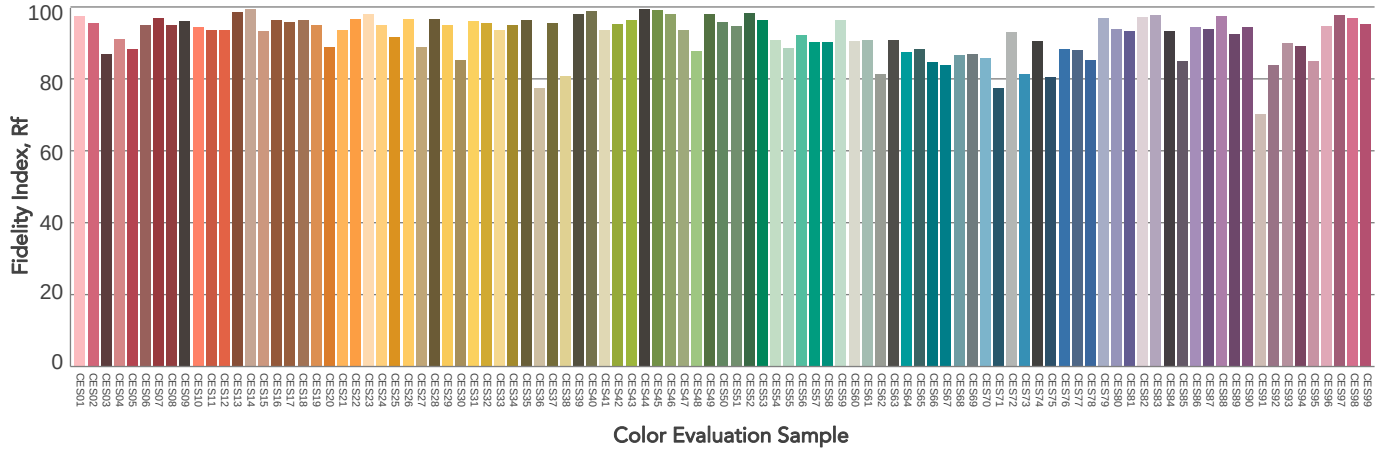












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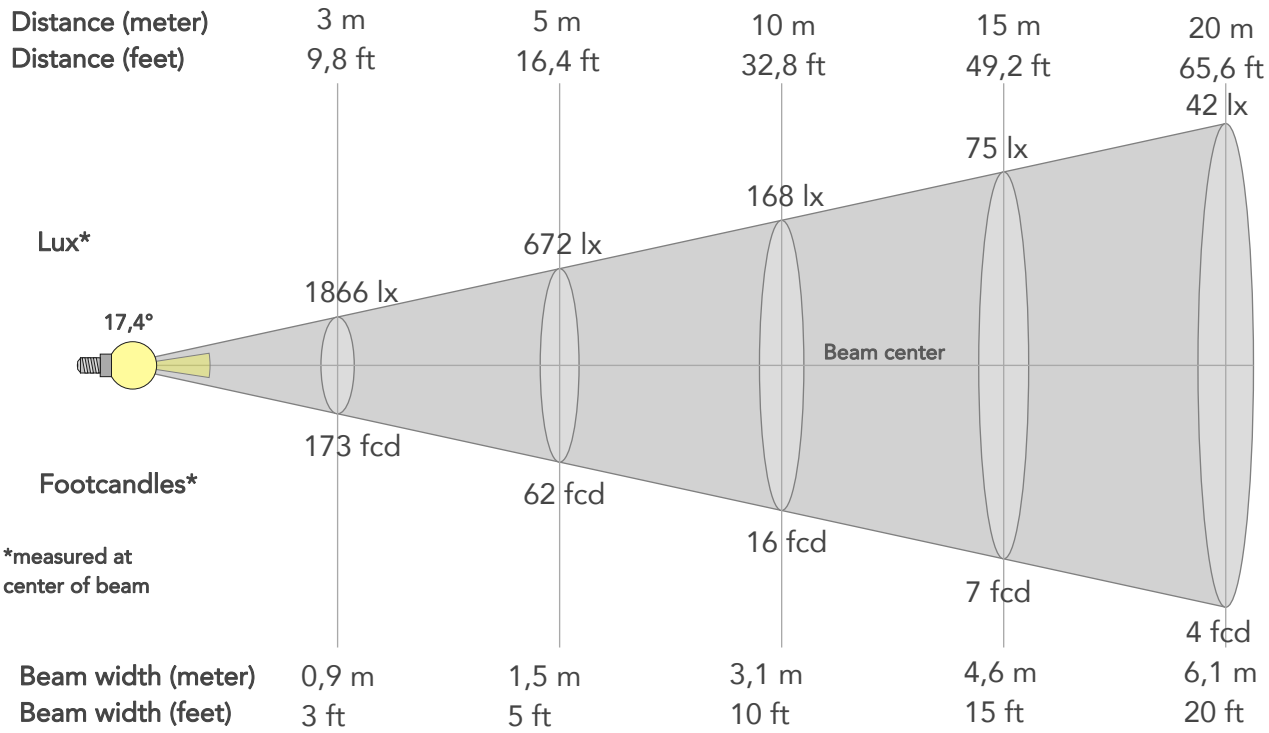
BEAM DETAILS

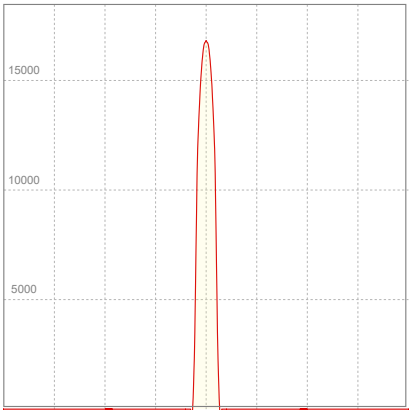
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17,4°	22,2°	23,6°	100,0%	100,0%



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	16790lx	4198lx	1866lx	1049lx	672lx	298lx	168lx	75lx	42lx	27lx	19lx	10lx	7lx
Footcand.	1560fcd	390fcd	173fcd	97fcd	62fcd	28fcd	16fcd	7fcd	4fcd	2fcd	2fcd	1fcd	1fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,5m	2,3m	3,1m	4,6m	6,1m	7,6m	9,2m	12,2m	15,3m
Beam wid.	1ft	2ft	3ft	4ft	5ft	7,5ft	10ft	15ft	20ft	25,1ft	30,1ft	40,1ft	50,1ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,153A	31,7W	37lm/W

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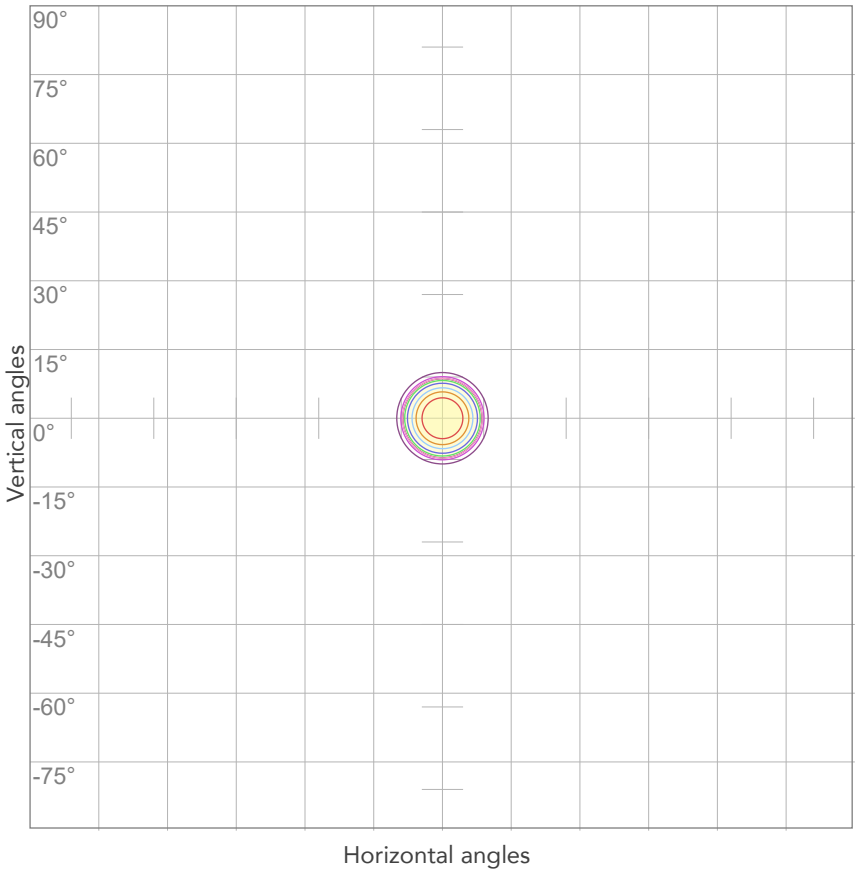
ISO DIAGRAMS

ISO CANDELA DIAGRAM



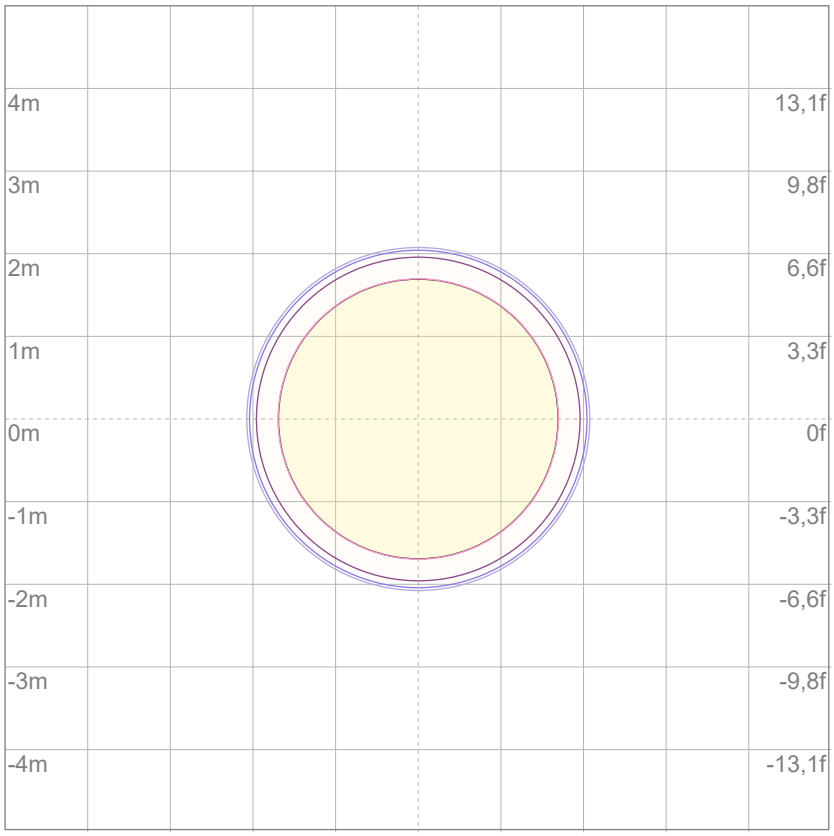
10%	1679 cd
20%	3358 cd
30%	5037 cd
40%	6716 cd
50%	8395 cd
60%	10074 cd
70%	11753 cd
80%	13432 cd

Conditions:

Number of c-planes: 2

Candela at center: 16790 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	5,04 lx
5%	8,40 lx
10%	16,8 lx
30%	50,4 lx
50%	84,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 168 lx

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

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Total lumen output:

922 lm

Peak candela output:

43882 cd

Light quality:

CRI: 96,4

Color temperature:

5361 K

PRODUCT NAME:

ECLDISPLAYVW

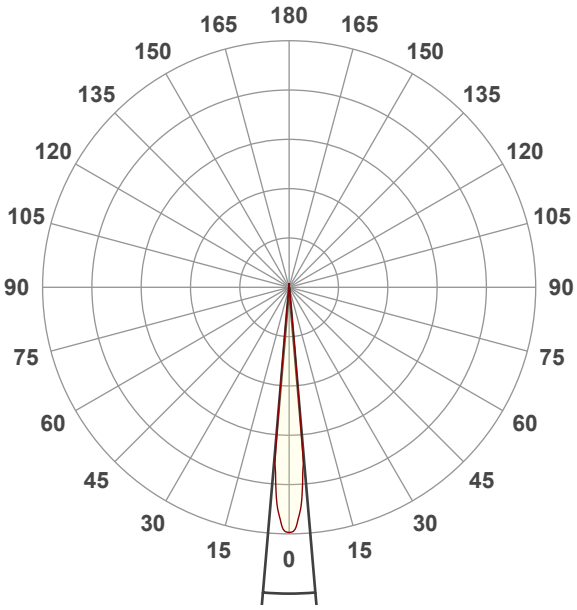
MEASURAMENT CONDITIONS:

Beam angle:
Profile 1020 Min Zoom

Target:
Cold White

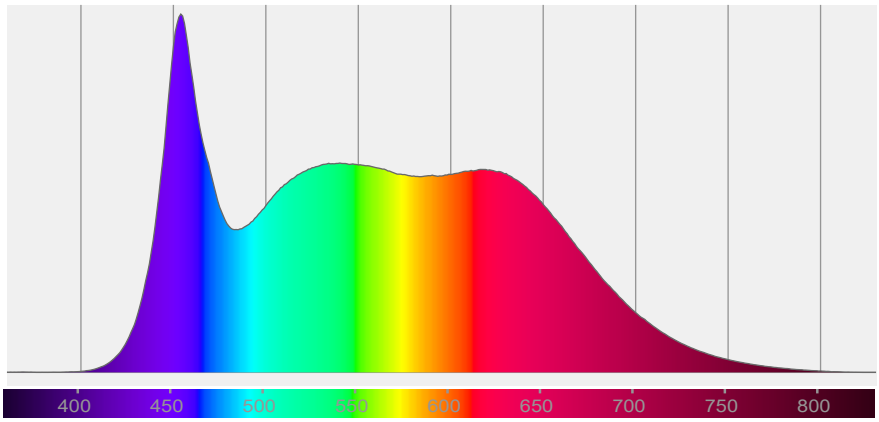
Operator:
Paolo Carvone

Date and time:
29/03/2023 12:12:14

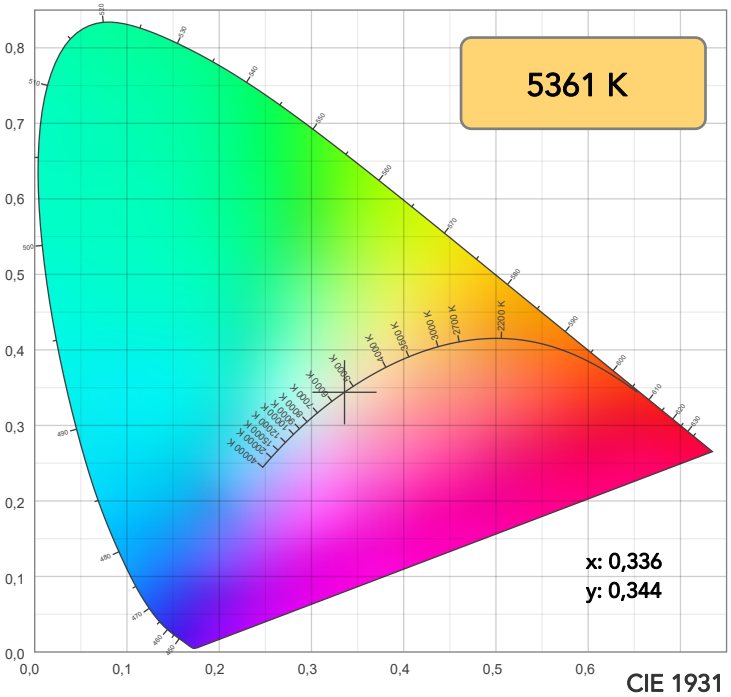


Beam angle 50%: 9,8°
Field angle 10%: 11°
Cut off angle 2.5%: 11,3°

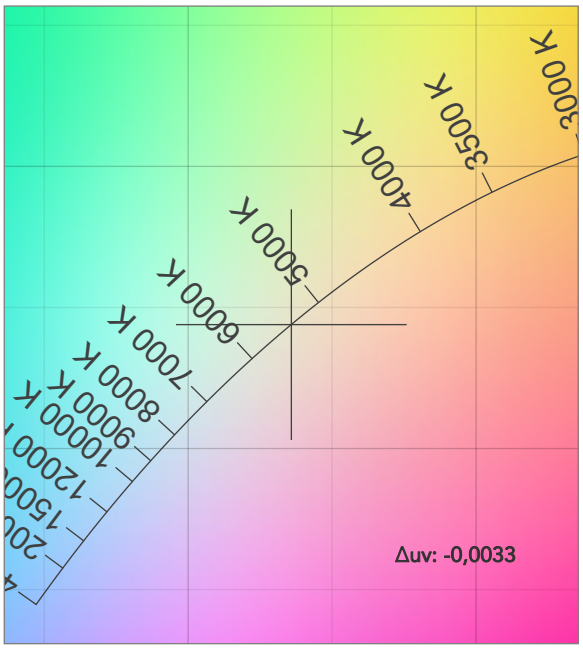
Spectra



COLOR DETAILS

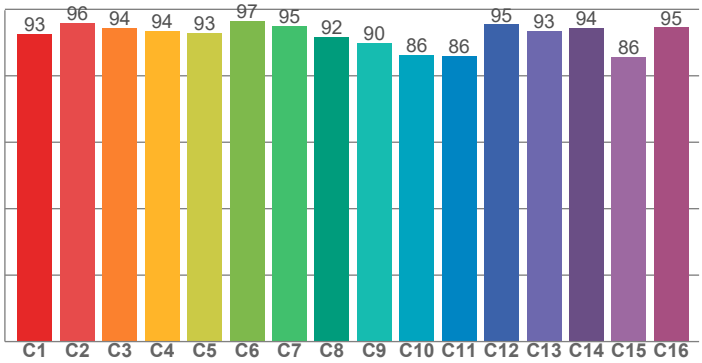


CIE 1931

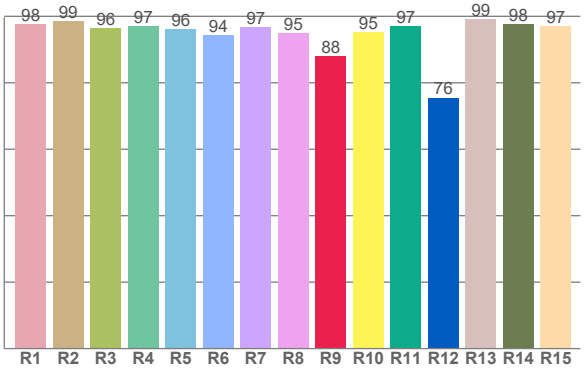


CIE 1931 ZOOM

TM30: 92,2



CRI: 96,4 (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
97,6	98,6	96,4	97,0	96,1	94,3	96,7	94,9	88,0	95,1	97,1	75,5	99,1	97,7	97,1

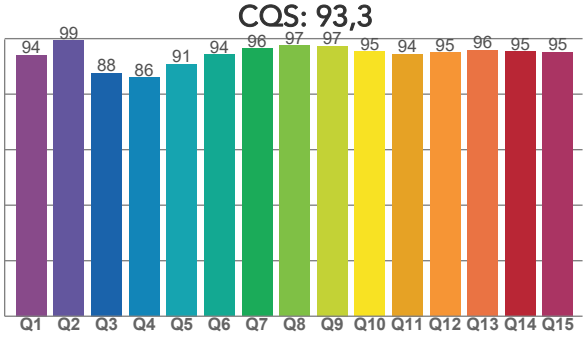
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,6	95,9	94,4	93,5	92,9	96,6	95,0	91,8	89,9	86,3	85,9	95,5	93,4	94,5	85,6	94,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,1	99,3	87,6	86,0	90,8	94,3	96,5	97,5	97,4	95,4	94,4	94,9	95,8	95,3	95,2

CQS: 93,3



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5361 K	96,4	88,0	92,2	99,6	93,3	97	0,336	0,344	-0,0033

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TM30 DETAILS

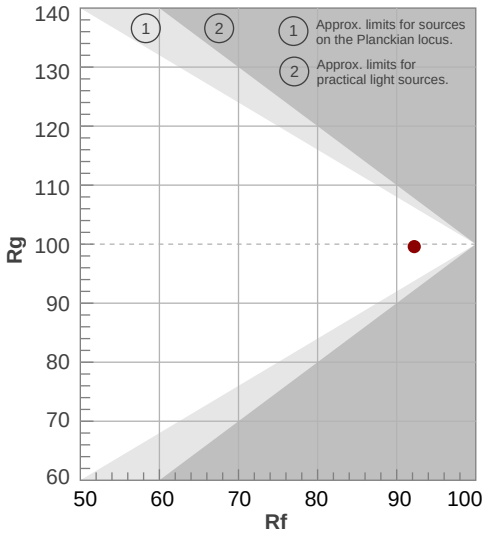
Rf 92,2

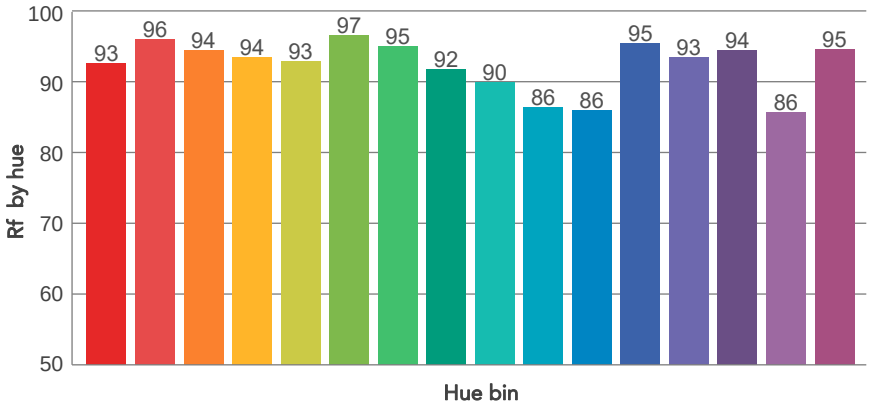
Fidelity index Rf

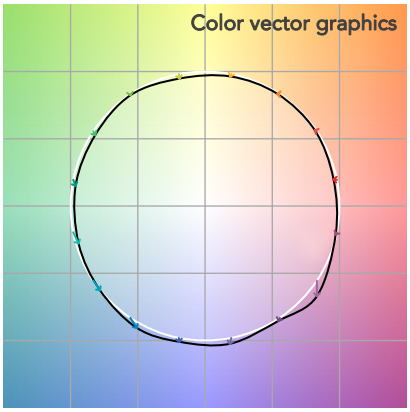
Rg 99,6

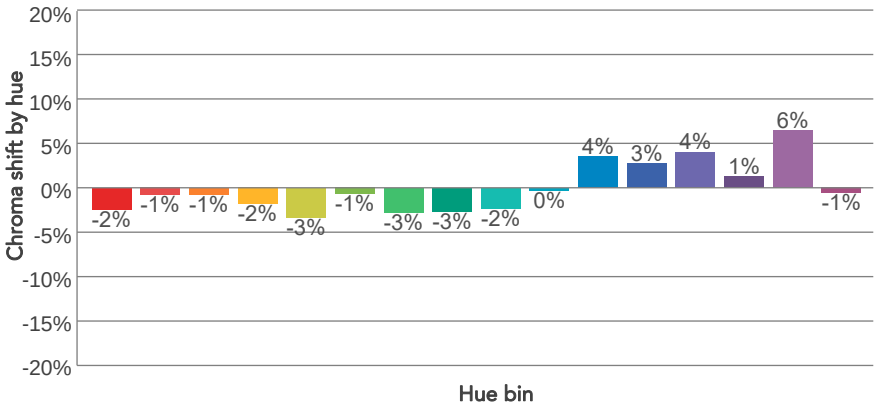
Gamut index

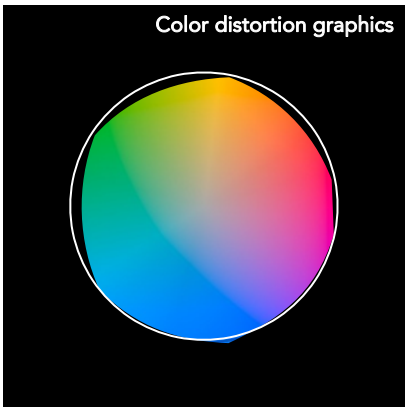
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	93	-2%	1%
2	96	-1%	2%
3	94	-1%	2%
4	94	-2%	0%
5	93	-3%	0%
6	97	-1%	0%
7	95	-3%	1%
8	92	-3%	4%
9	90	-2%	9%
10	86	0%	9%
11	86	4%	8%
12	95	3%	1%
13	93	4%	-2%
14	94	1%	-2%
15	86	6%	-9%
16	95	-1%	-2%

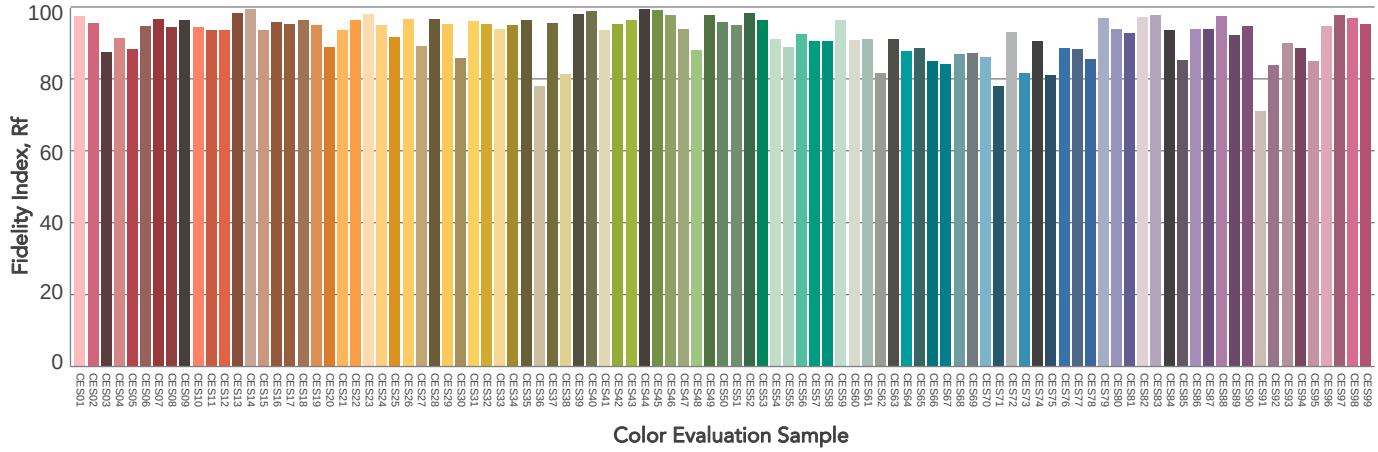












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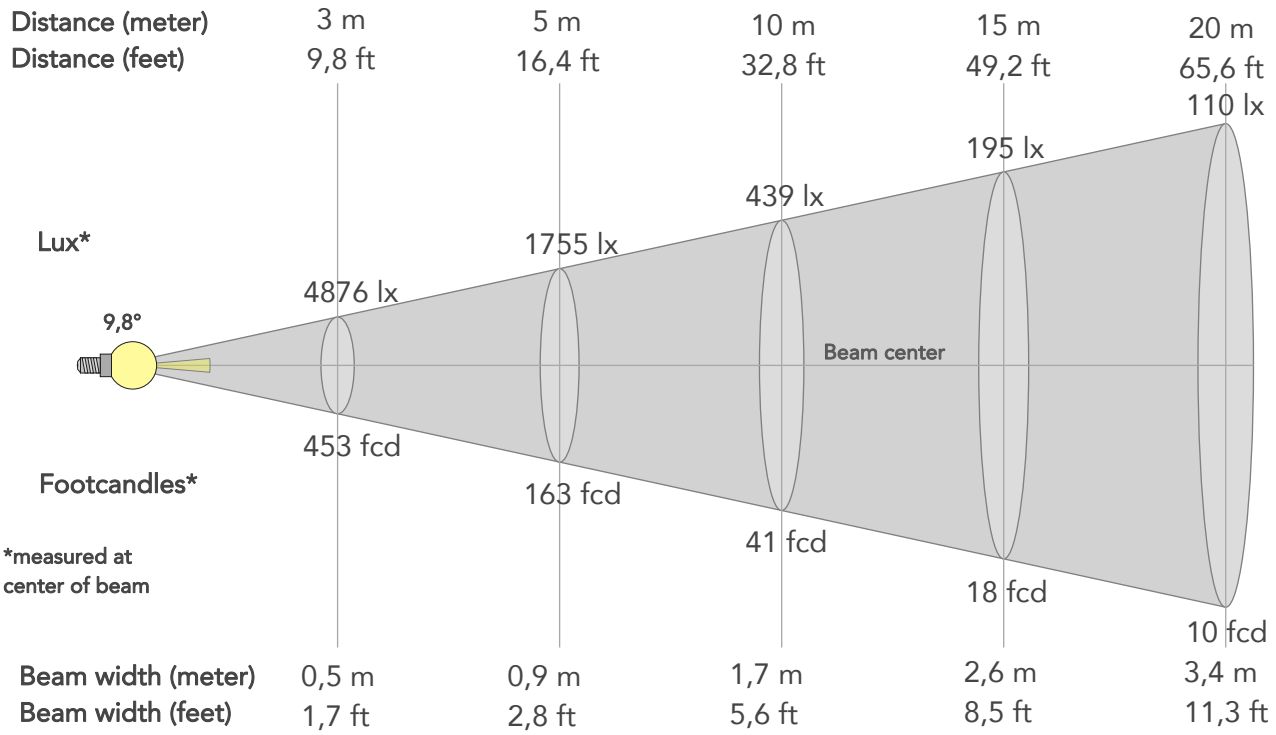
BEAM DETAILS

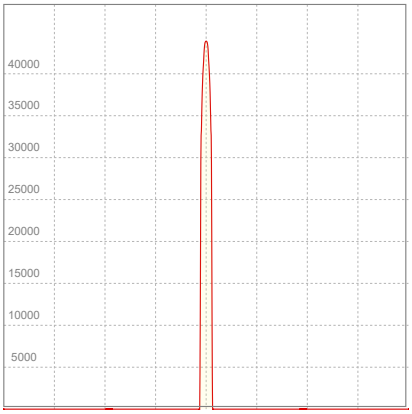
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
9,8°	11°	11,3°	100,0%	100,0%



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	43882lx	10970lx	4876lx	2743lx	1755lx	780lx	439lx	195lx	110lx	70lx	49lx	27lx	18lx
Footcand.	4077fcd	1019fcd	453fcd	255fcd	163fcd	72fcd	41fcd	18fcd	10fcd	7fcd	5fcd	3fcd	2fcd
Beam wid.	0,2m	0,3m	0,5m	0,7m	0,9m	1,3m	1,7m	2,6m	3,4m	4,3m	5,2m	6,9m	8,6m
Beam wid.	0,6ft	1,1ft	1,7ft	2,3ft	2,8ft	4,2ft	5,6ft	8,5ft	11,3ft	14,1ft	16,9ft	22,5ft	28,2ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,153A	31,8W	29lm/W

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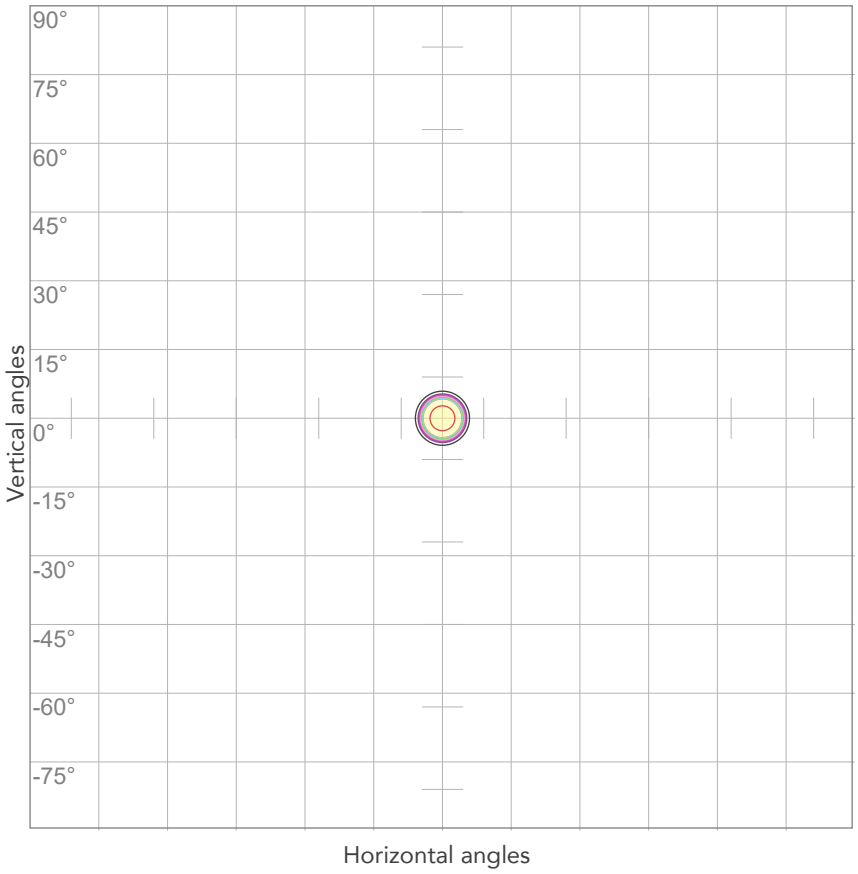
ISO DIAGRAMS

ISO CANDELA DIAGRAM



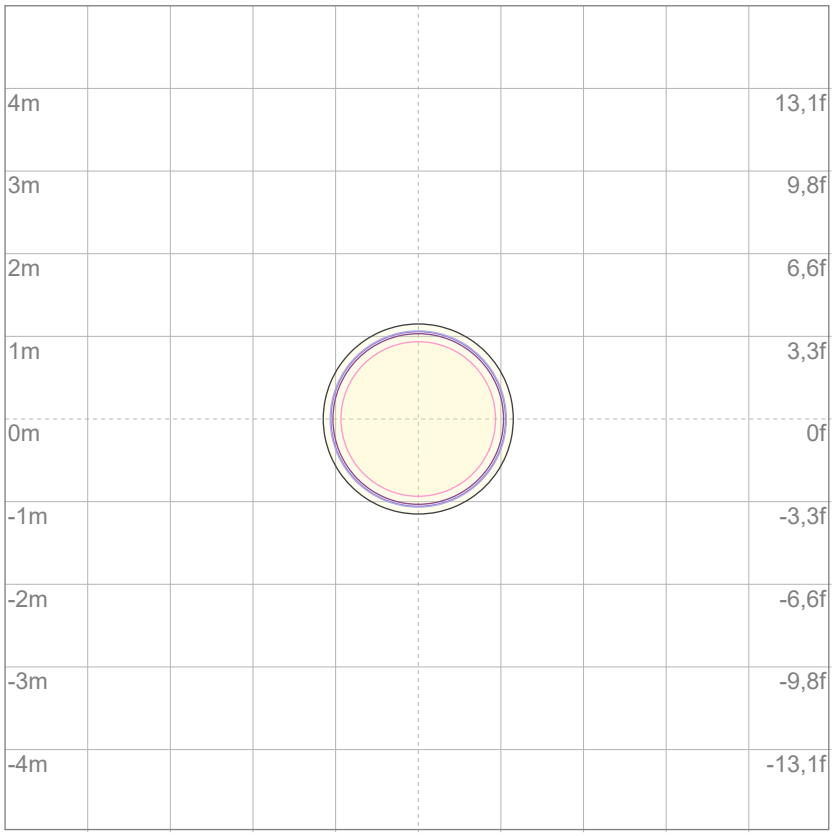
10%	4388 cd
20%	8776 cd
30%	13165 cd
40%	17553 cd
50%	21941 cd
60%	26329 cd
70%	30717 cd
80%	35105 cd

Conditions:

Number of c-planes: 2

Candela at center: 43882 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	13,2 lx
5%	21,9 lx
10%	43,9 lx
30%	132 lx
50%	219 lx

Conditions:

Number of c-planes: 2

Lux at center: 439 lx

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

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