Photometric Test Report

EclDisplay DATVW

ZOOMABLE WASH LENS 15-30°

35W variable white LED gallery light,
with data control
(DMX, Dali T6, Knob-dimming)

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:

1218 lm

Peak candela output:

4518 cd

Light quality:

CRI: 97,3

Color temperature:

4146 K

PRODUCT NAME:

ECLDISPLAY VW

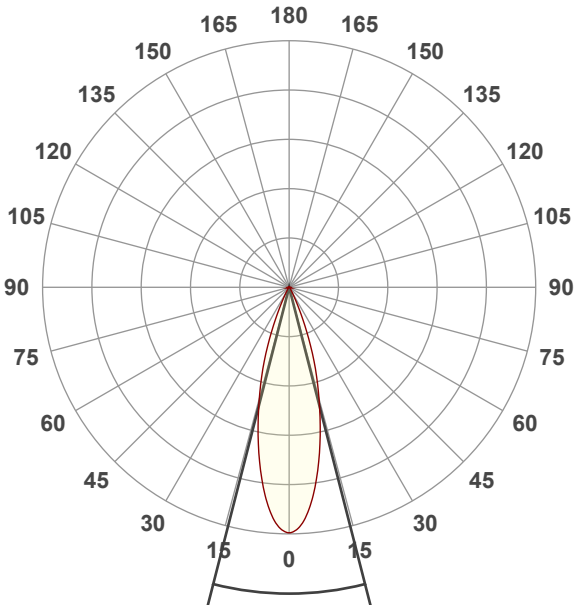
MEASURAMENT CONDITIONS:

Beam angle:
Wash 1530 Max Zoom

Target:
Full On

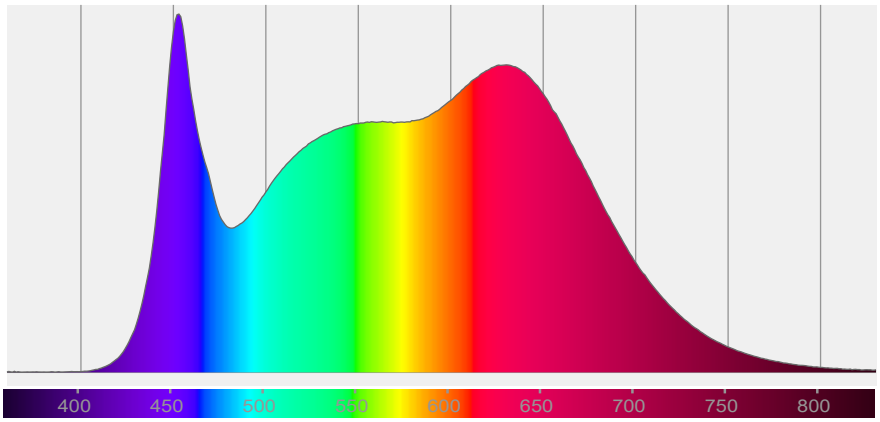
Operator:
Giacomo Matteo

Date and time:
17/06/2024 12:16:08

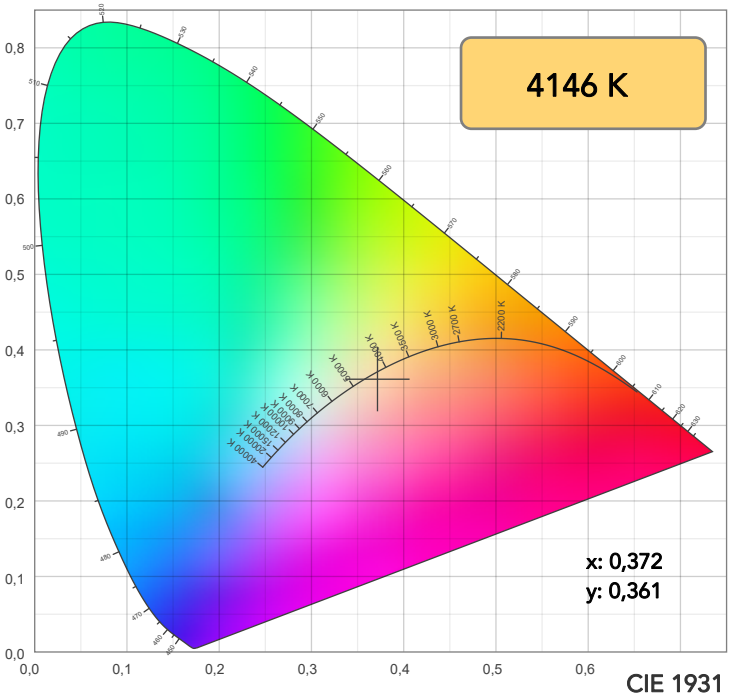


Beam angle 50%: 28,7°
Field angle 10%: 49,1°
Cut off angle 2.5%: 60,7°

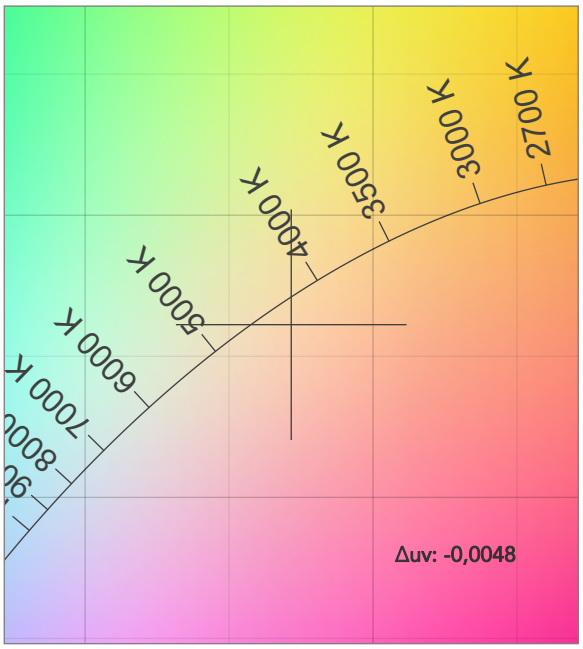
Spectra



COLOR DETAILS

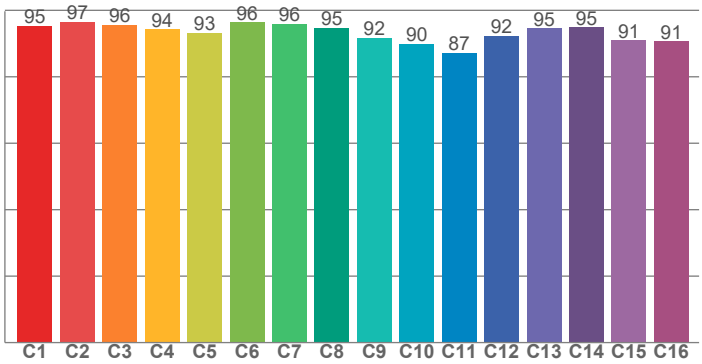


CIE 1931

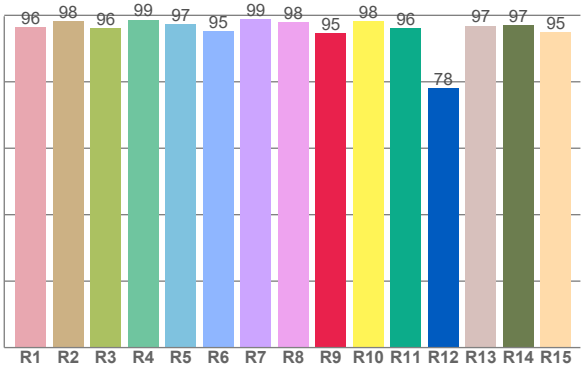


CIE 1931 ZOOM

TM30: 93,2



CRI: 97,3 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
96,5	98,1	96,1	98,7	97,3	95,2	98,8	98,0	94,5	98,2	96,2	78,0	96,8	97,0	95,0

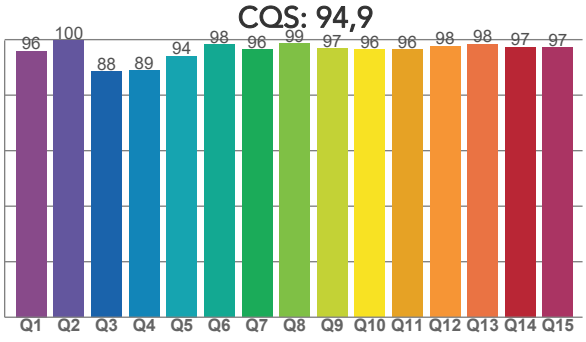
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,3	96,6	95,7	94,3	93,1	96,4	96,0	94,8	91,7	89,9	87,2	92,3	94,6	94,9	90,9	90,6

CQS Q values

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

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
4146 K	97,3	94,5	93,2	101,6	94,9	98	0,372	0,361	-0,0048

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TM30 DETAILS

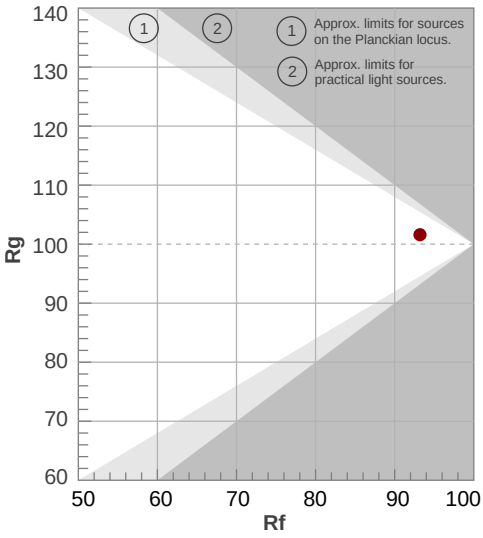
Rf 93,2

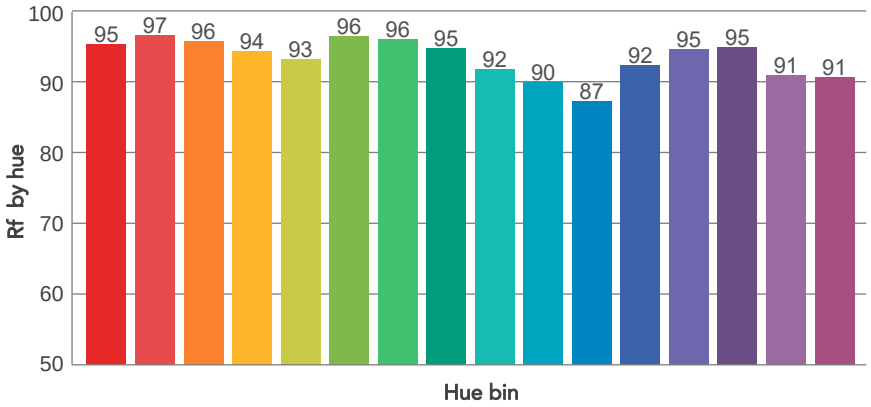
Fidelity index Rf

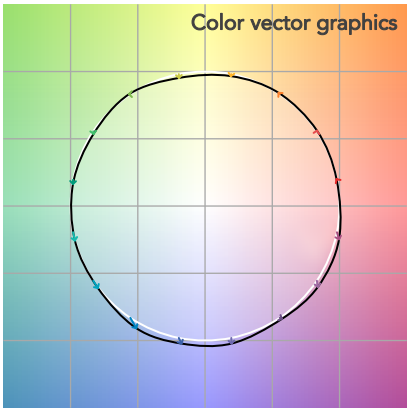
Rg 101,6

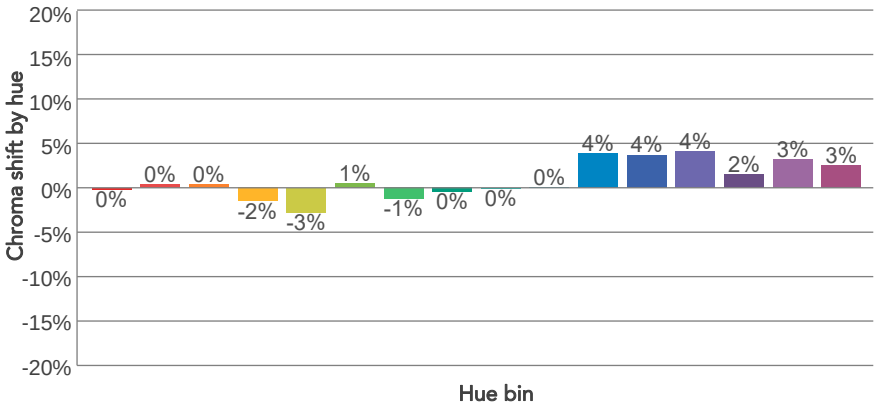
Gammut index

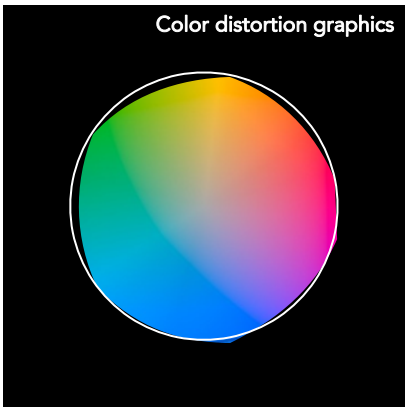
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	95	0%	0%
2	97	0%	0%
3	96	0%	1%
4	94	-2%	0%
5	93	-3%	0%
6	96	1%	1%
7	96	-1%	1%
8	95	0%	3%
9	92	0%	6%
10	90	0%	6%
11	87	4%	8%
12	92	4%	3%
13	95	4%	-1%
14	95	2%	1%
15	91	3%	-3%
16	91	3%	-5%

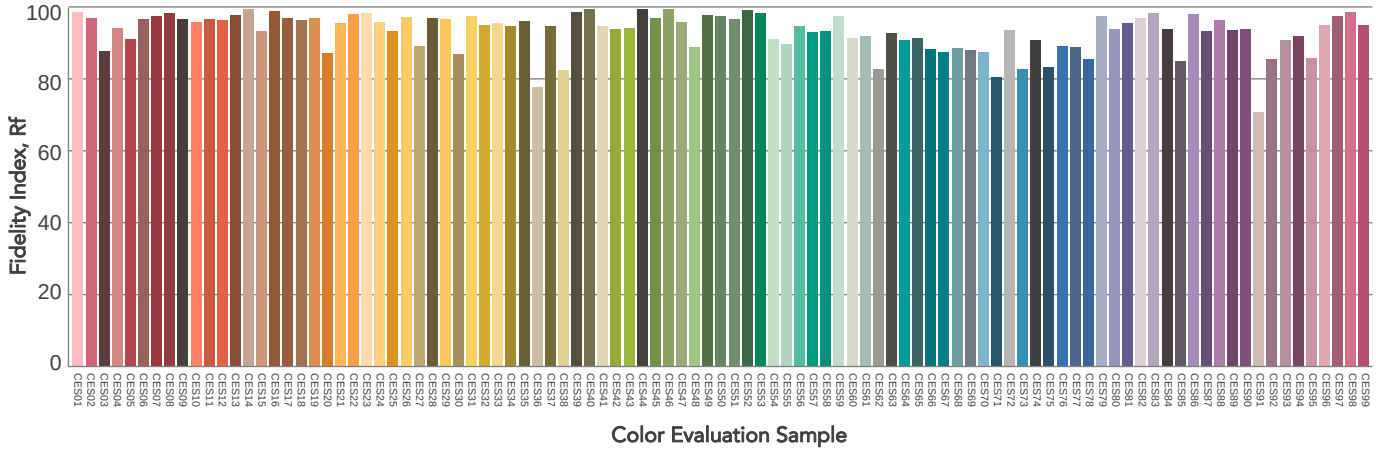












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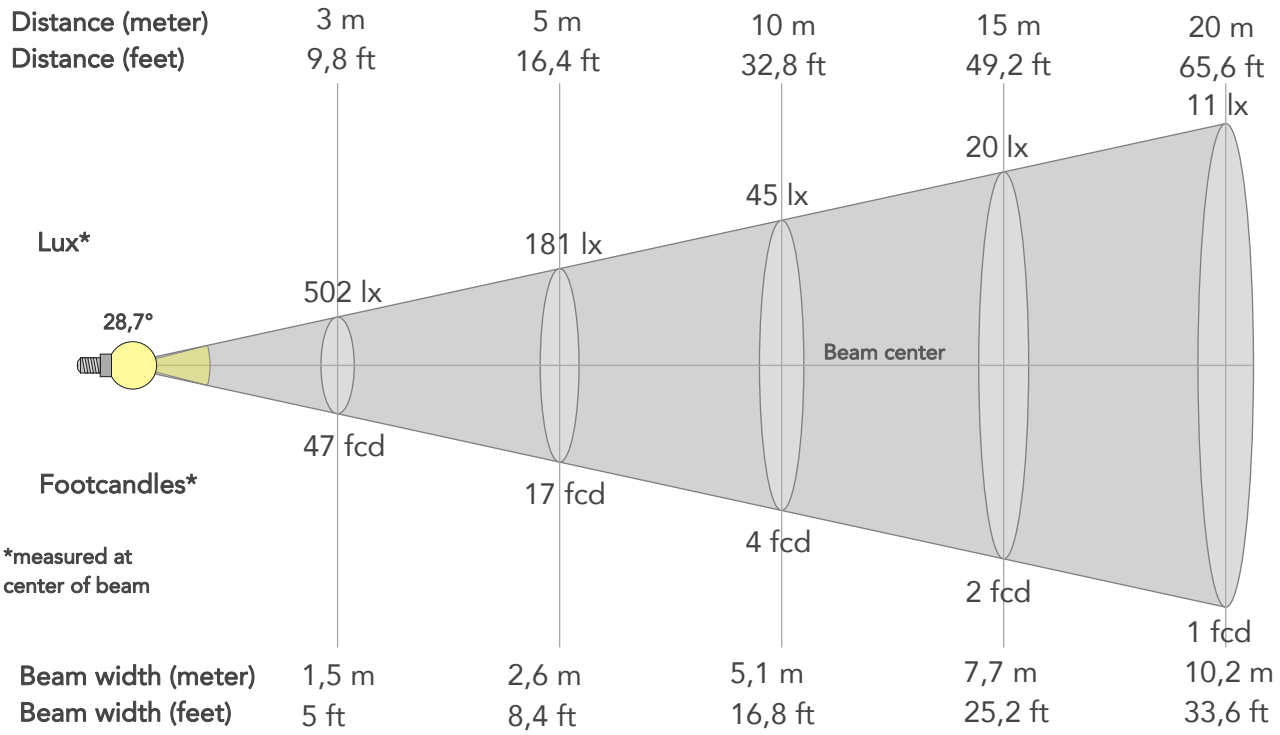
BEAM DETAILS

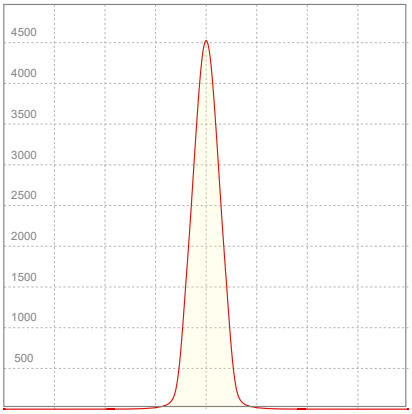
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
28,7°	49,1°	60,7°	99,5%	98,4%



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	4518lx	1129lx	502lx	282lx	181lx	80lx	45lx	20lx	11lx	7lx	5lx	3lx	2lx
Footcand.	420fcd	105fcd	47fcd	26fcd	17fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,5m	2m	2,6m	3,8m	5,1m	7,7m	10,2m	12,8m	15,3m	20,5m	25,6m
Beam wid.	1,7ft	3,4ft	5ft	6,7ft	8,4ft	12,6ft	16,8ft	25,2ft	33,6ft	41,9ft	50,3ft	67,1ft	83,9ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
226V	0,149A	31,9W	0,95	38lm/W

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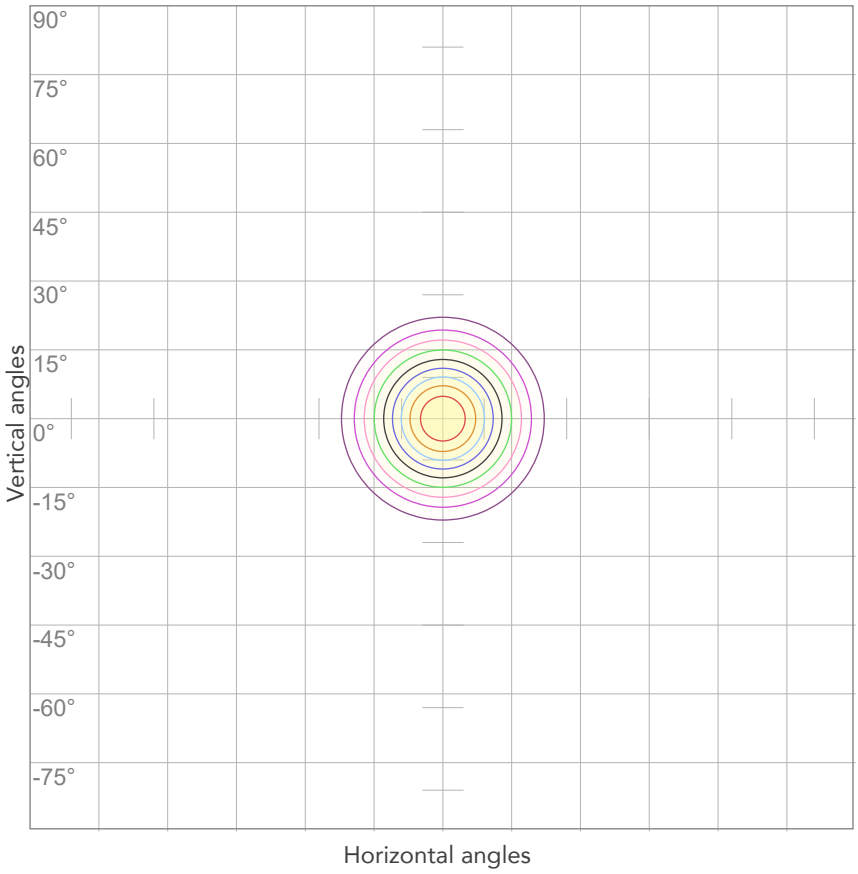
ISO DIAGRAMS

ISO CANDELA DIAGRAM



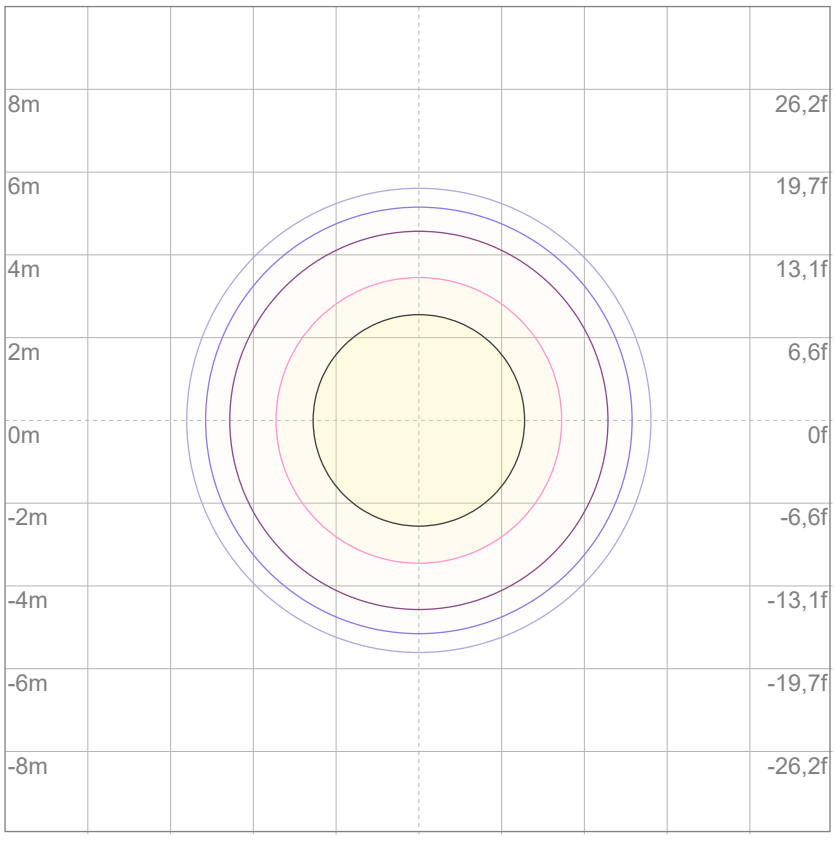
10%	452 cd
20%	904 cd
30%	1355 cd
40%	1807 cd
50%	2259 cd
60%	2711 cd
70%	3162 cd
80%	3614 cd

Conditions:

Number of c-planes: 2

Candela at center: 4518 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,36 lx
5%	2,26 lx
10%	4,52 lx
30%	13,6 lx
50%	22,6 lx

Conditions:

Number of c-planes: 2

Lux at center: 45,2 lx

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

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Total lumen output:

975 lm

Peak candela output:

11277 cd

Light quality:

CRI: 96,6

Color temperature:

4156 K

PRODUCT NAME:

ECLDISPLAY VW

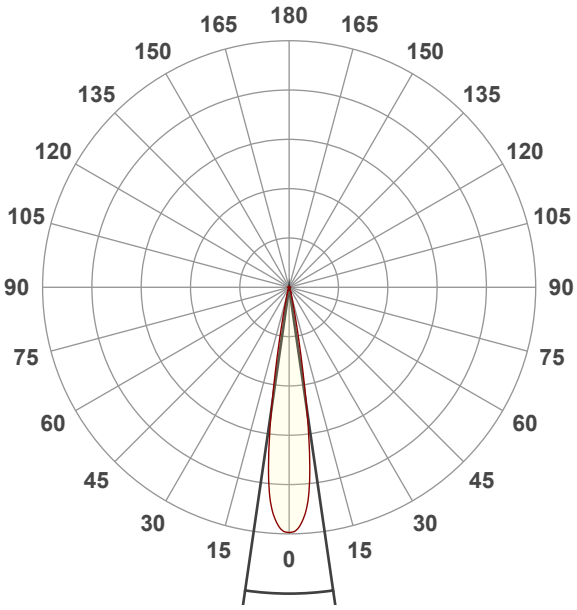
MEASURAMENT CONDITIONS:

Beam angle:
Wash 1530 Min Zoom

Target:
Full On

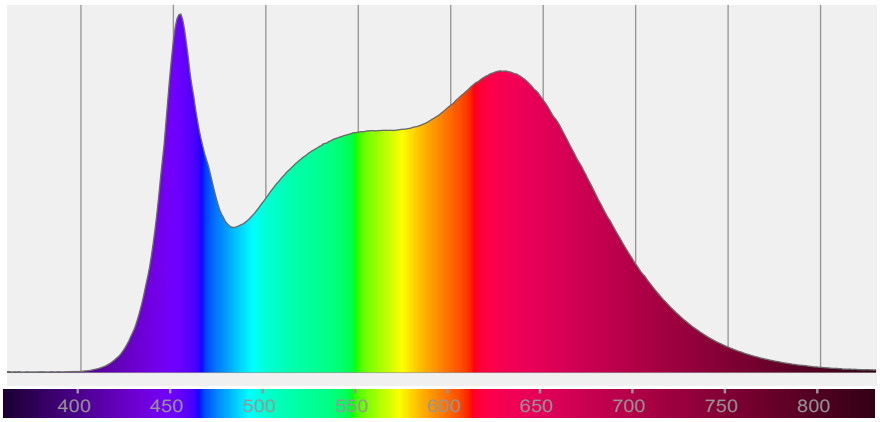
Operator:
Giacomo Matteo

Date and time:
17/06/2024 12:44:05

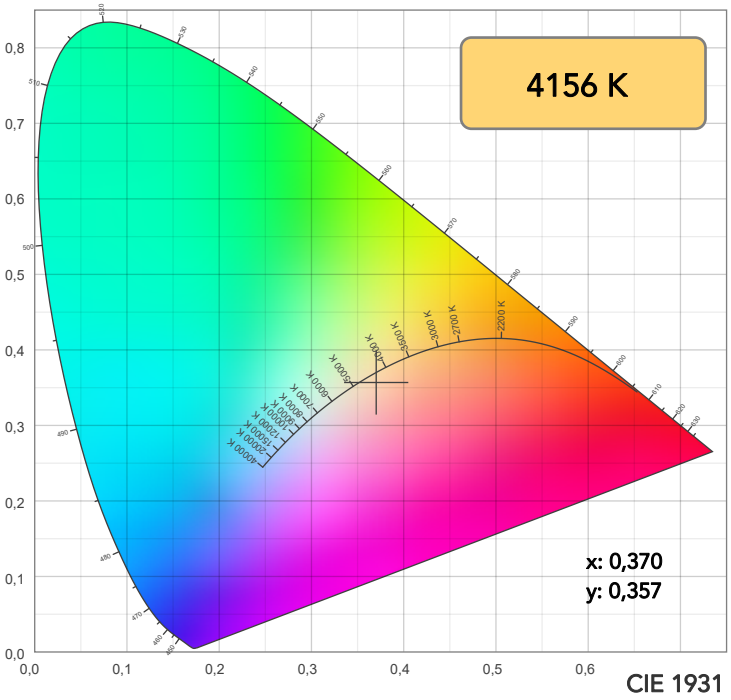


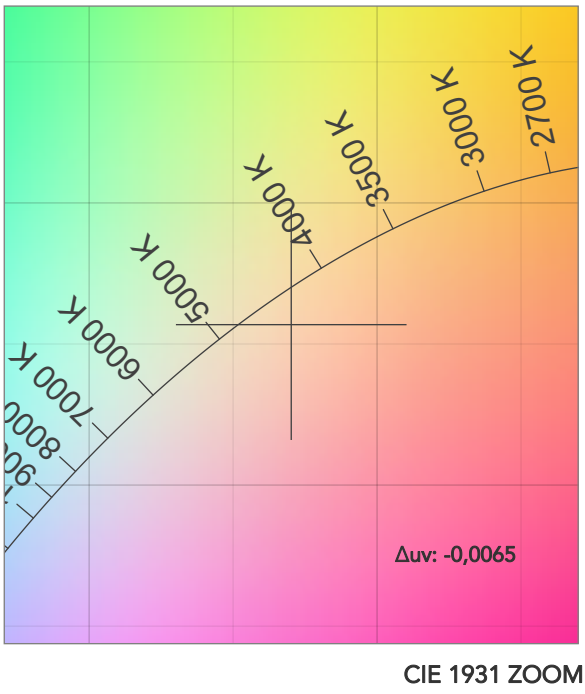
Beam angle 50%: 16,5°
Field angle 10%: 24,5°
Cut off angle 2.5%: 34,5°

Spectra

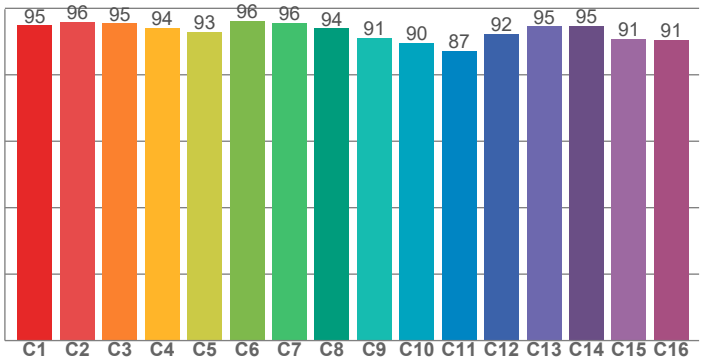


COLOR DETAILS

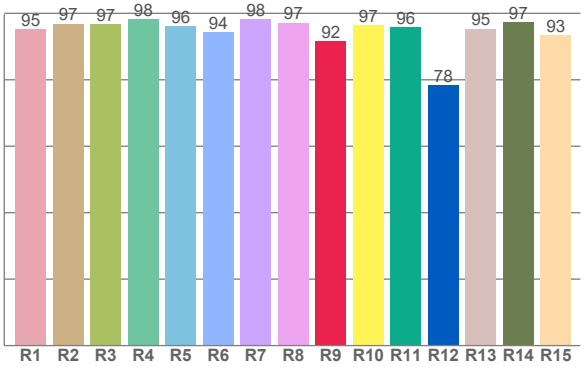




TM30: 93,0



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
95,2	96,9	96,8	98,2	96,1	94,3	98,2	97,2	91,6	96,5	95,9	78,3	95,4	97,4	93,4

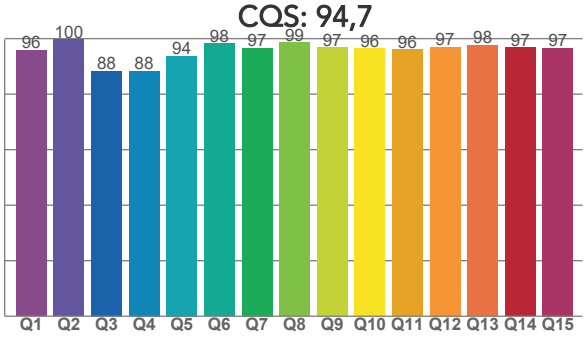
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,9	95,9	95,5	94,2	93,0	96,2	95,7	94,0	91,2	89,6	87,2	92,4	94,5	94,7	90,9	90,5

CQS Q values

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

CQS: 94,7



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4156 K	96,6	91,6	93,0	101,8	94,7	98	0,370	0,357	-0,0065

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TM30 DETAILS

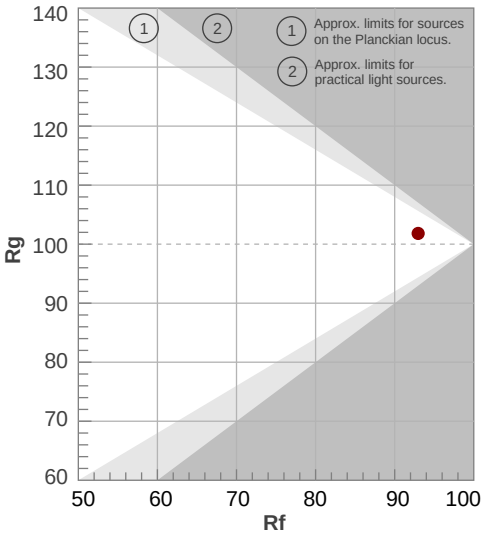
Rf 93,0

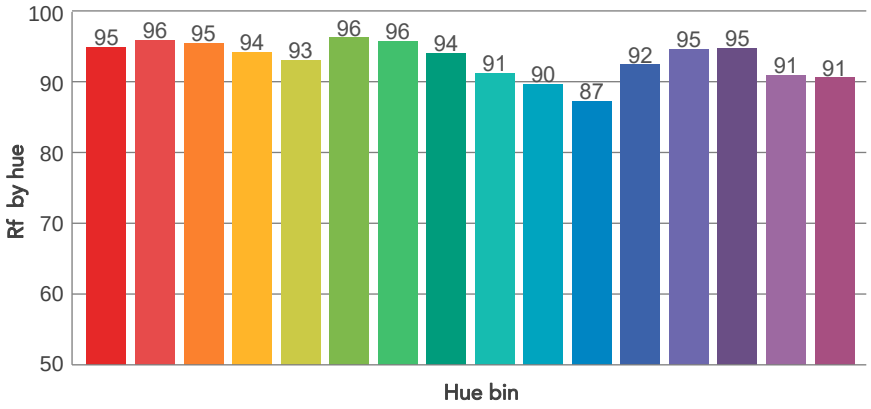
Fidelity index Rf

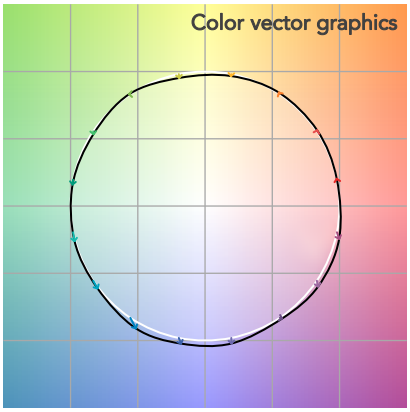
Rg 101,8

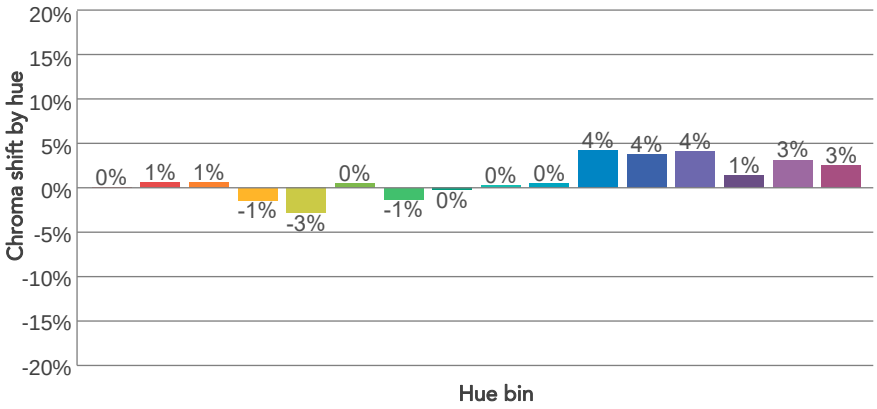
Gammut index

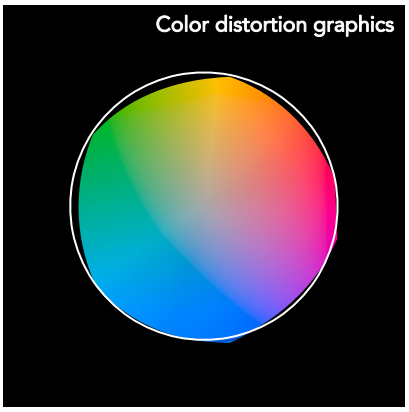
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	95	0%	1%
2	96	1%	0%
3	95	1%	1%
4	94	-1%	0%
5	93	-3%	0%
6	96	0%	1%
7	96	-1%	2%
8	94	0%	3%
9	91	0%	7%
10	90	0%	6%
11	87	4%	8%
12	92	4%	2%
13	95	4%	-1%
14	95	1%	1%
15	91	3%	-3%
16	91	3%	-4%

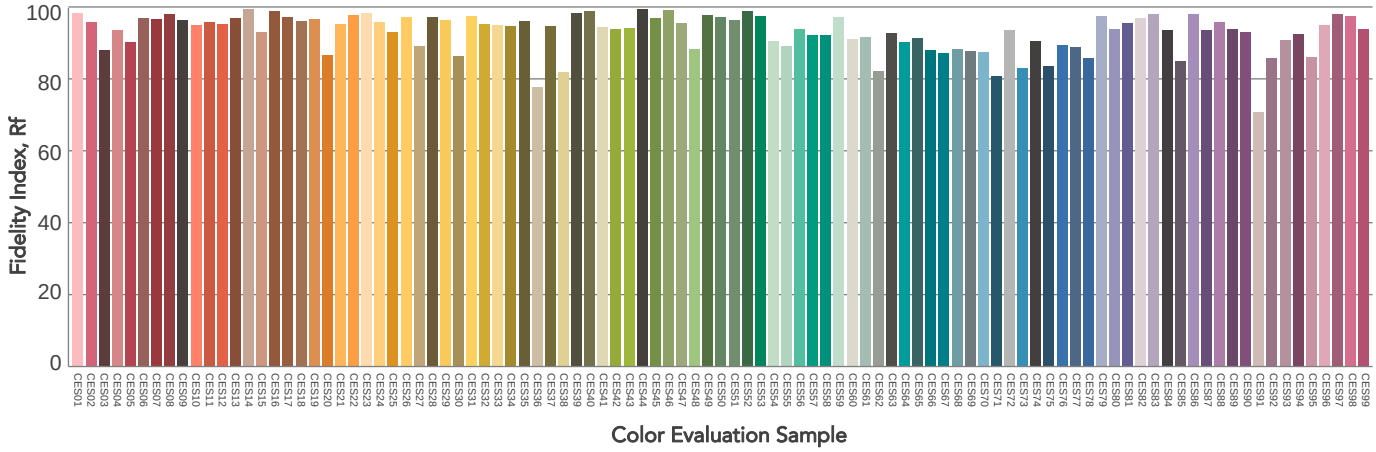












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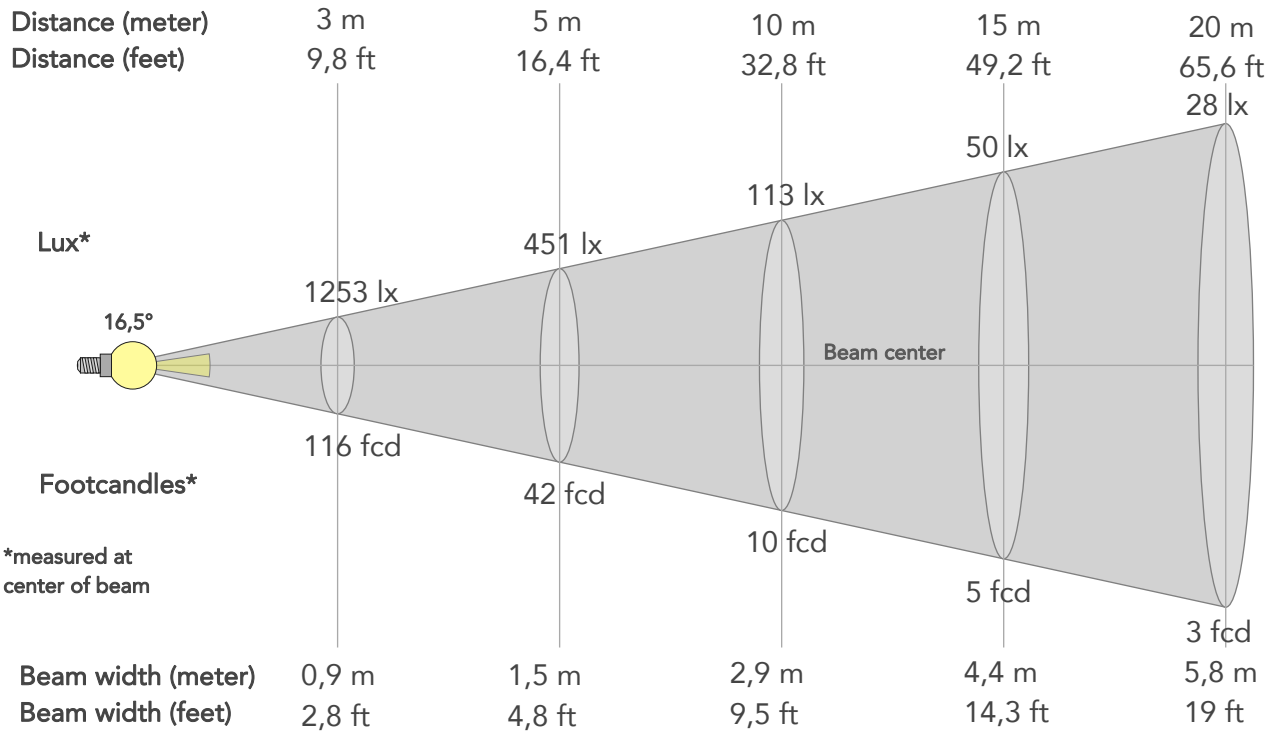
BEAM DETAILS

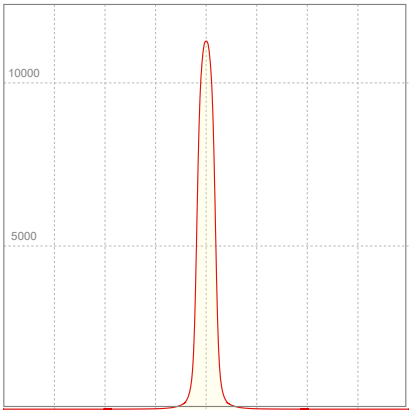
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16,5°	24,5°	34,5°	99,4%	98,5%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	11277lx	2819lx	1253lx	705lx	451lx	200lx	113lx	50lx	28lx	18lx	13lx	7lx	5lx
Footcand.	1048fcd	262fcd	116fcd	65fcd	42fcd	19fcd	10fcd	5fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,5m	2,2m	2,9m	4,4m	5,8m	7,3m	8,7m	11,6m	14,5m
Beam wid.	1ft	1,9ft	2,8ft	3,8ft	4,8ft	7,1ft	9,5ft	14,3ft	19ft	23,8ft	28,6ft	38,1ft	47,6ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,147A	31,6W	0,95	31lm/W

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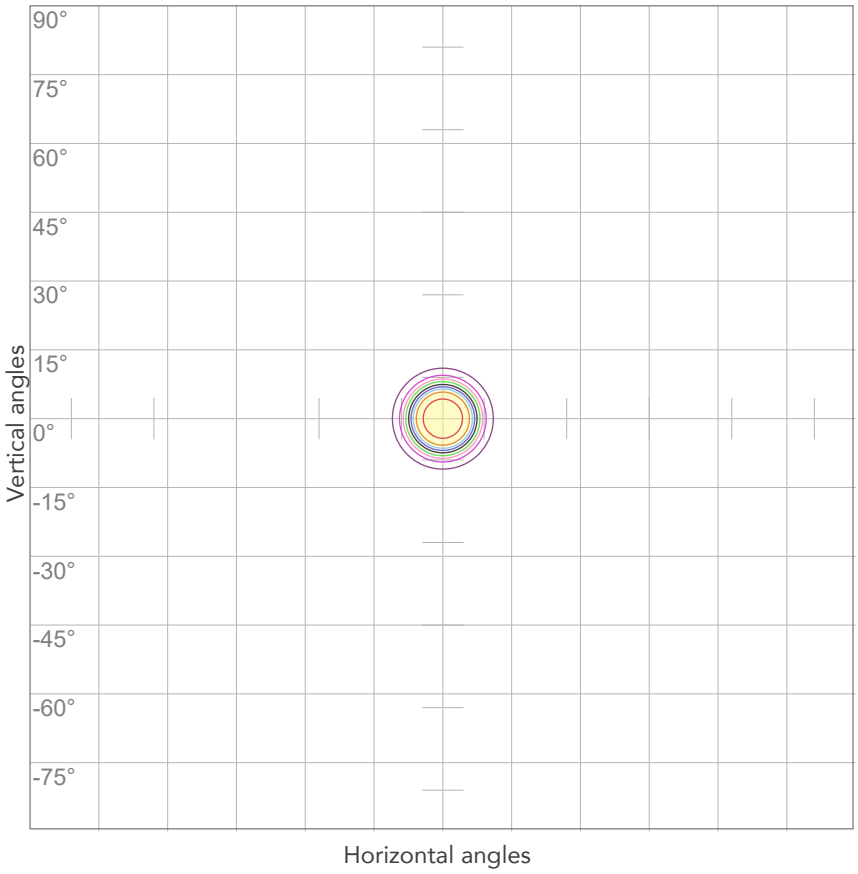
ISO DIAGRAMS

ISO CANDELA DIAGRAM



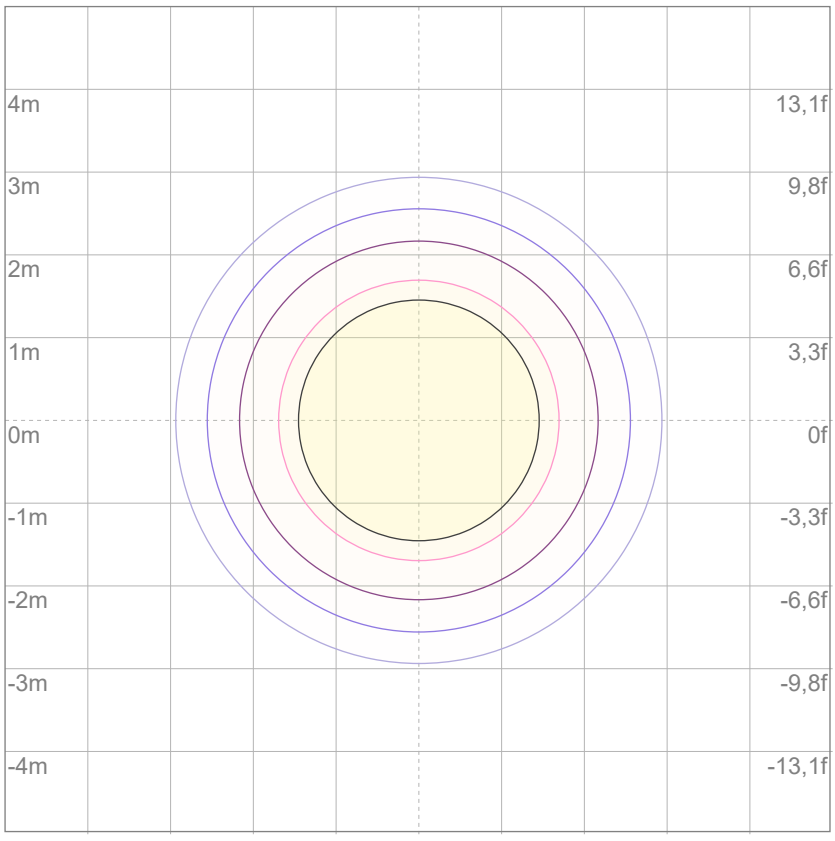
10%	1128 cd
20%	2255 cd
30%	3383 cd
40%	4511 cd
50%	5639 cd
60%	6766 cd
70%	7894 cd
80%	9022 cd

Conditions:

Number of c-planes: 2

Candela at center: 11277 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	3,38 lx
5%	5,64 lx
10%	11,3 lx
30%	33,8 lx
50%	56,4 lx

Conditions:

Number of c-planes: 2

Lux at center: 113 lx

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

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Total lumen output:

940 lm

Peak candela output:

3490 cd

Light quality:

CRI: 96,9

Color temperature:

2715 K

PRODUCT NAME:

ECLDISPLAY VW

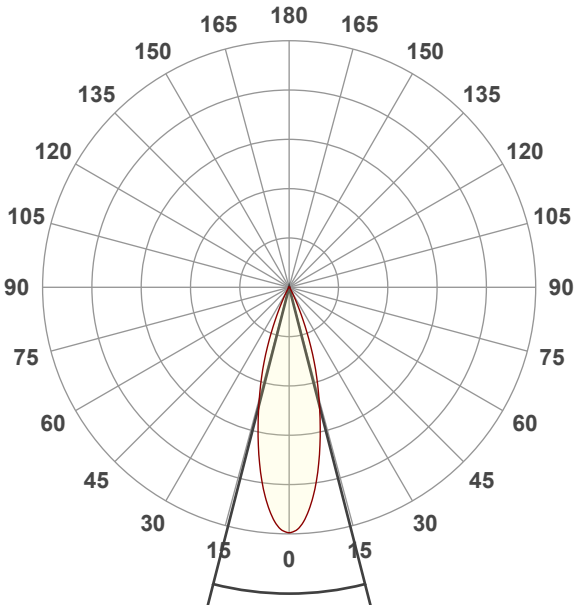
MEASURAMENT CONDITIONS:

Beam angle:
Wash 1530 Max Zoom

Target:
Warm White

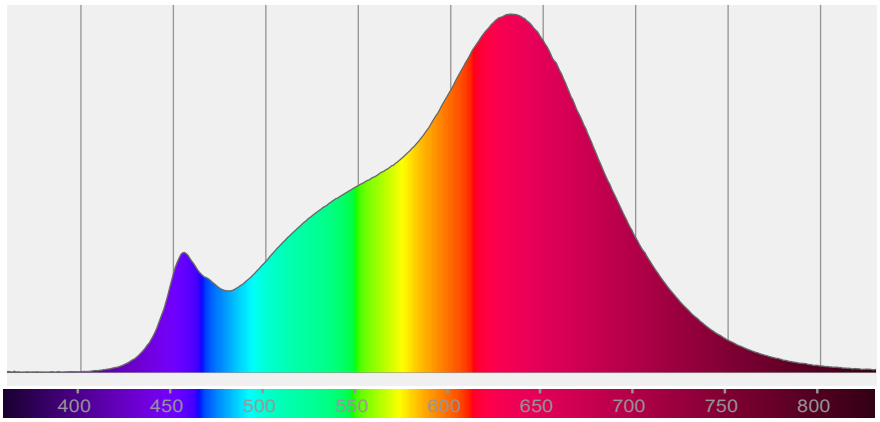
Operator:
Giacomo Matteo

Date and time:
17/06/2024 12:18:12

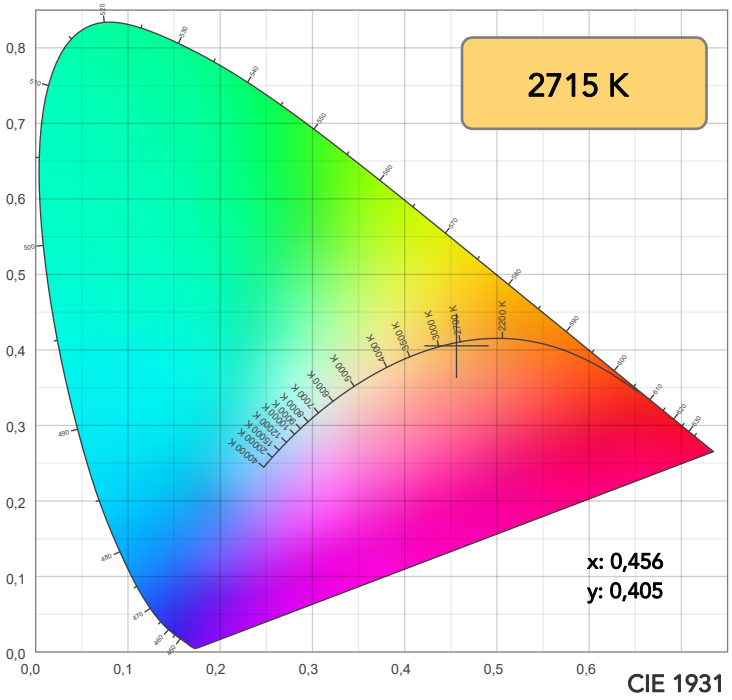


Beam angle 50%: 28,7°
Field angle 10%: 49,2°
Cut off angle 2.5%: 60,5°

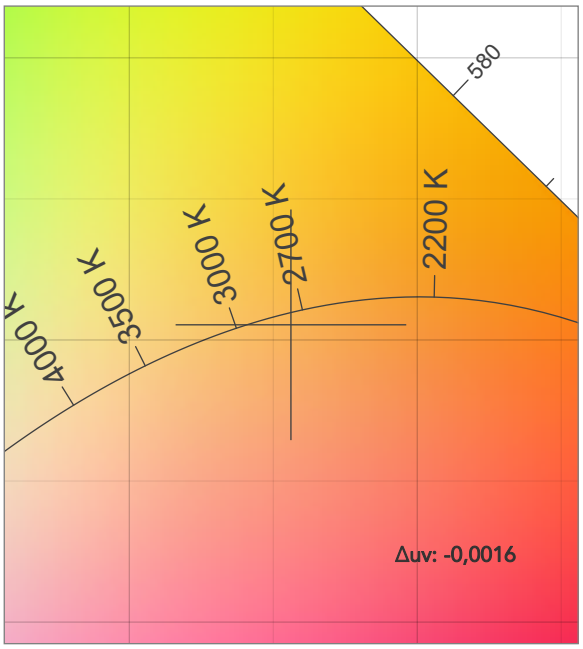
Spectra



COLOR DETAILS

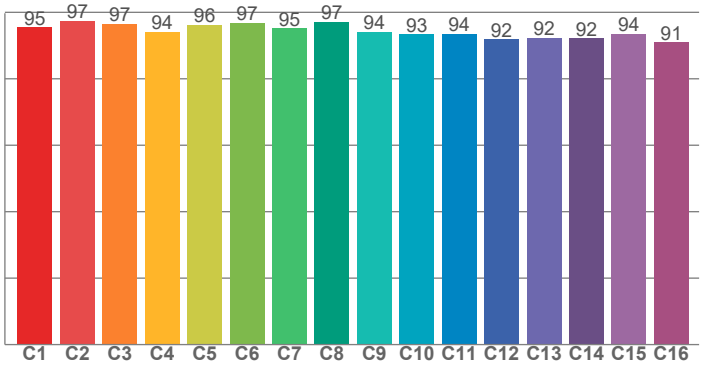


CIE 1931

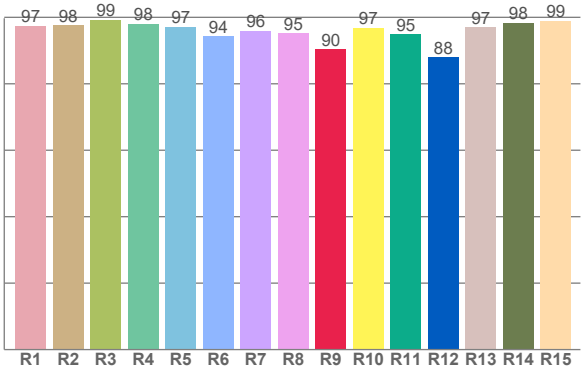


CIE 1931 ZOOM

TM30: 94,5



CRI: 96,9 (R1-R8)



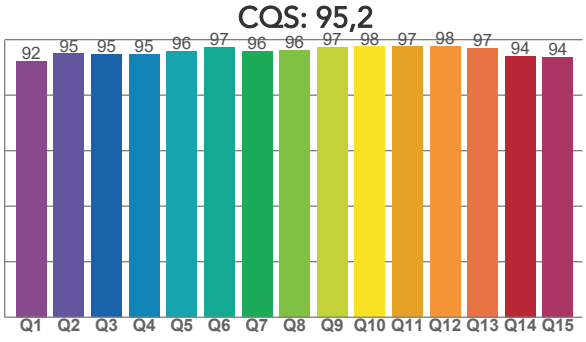
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97,5	97,7	99,3	98,0	97,2	94,2	96,0	95,1	90,4	96,8	94,8	88,0	97,0	98,4	99,0

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

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

CQS: 95,2



CQS Q values

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

COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2715 K	96,9	90,4	94,5	100,3	95,2	97	0,456	0,405	-0,0016

TM30 DETAILS

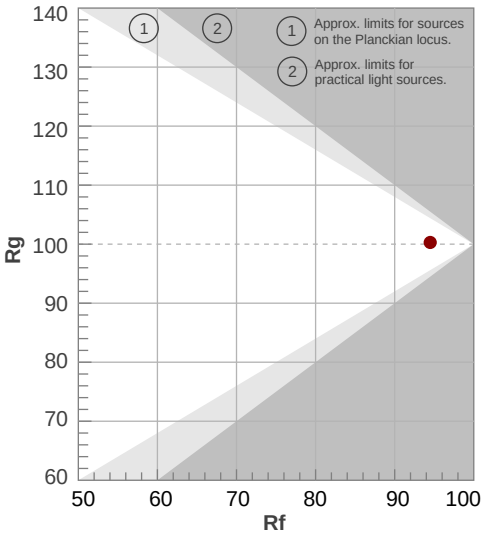
Rf 94,5

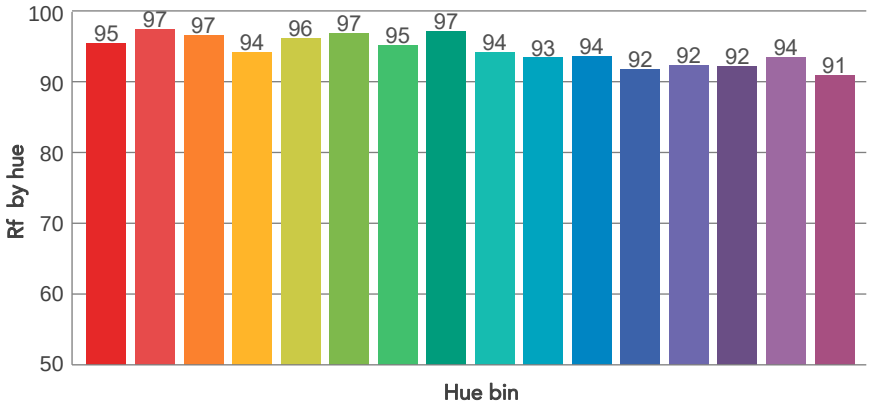
Fidelity index Rf

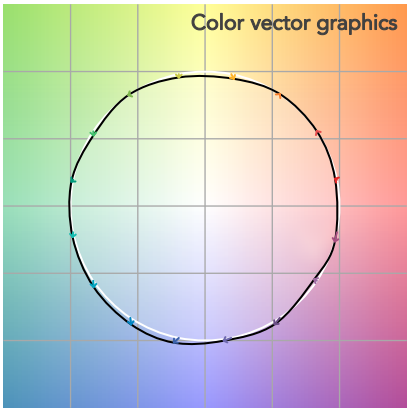
Rg 100,3

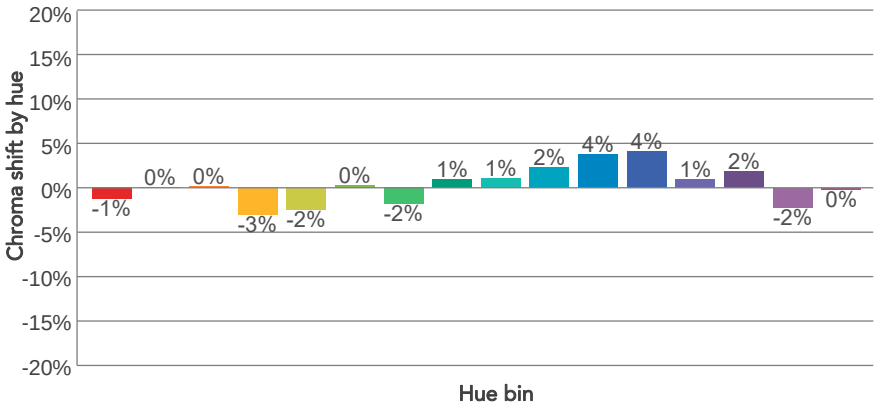
Gammut index

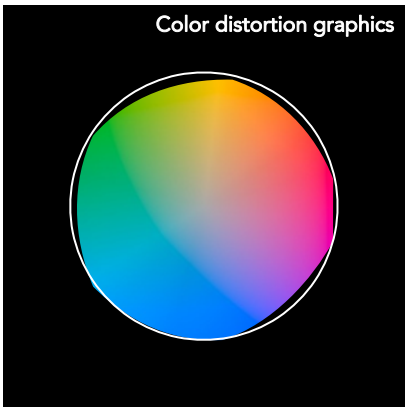
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	95	-1%	1%
2	97	0%	0%
3	97	0%	0%
4	94	-3%	-3%
5	96	-2%	1%
6	97	0%	2%
7	95	-2%	2%
8	97	1%	2%
9	94	1%	3%
10	93	2%	4%
11	94	4%	3%
12	92	4%	-3%
13	92	1%	-6%
14	92	2%	-6%
15	94	-2%	0%
16	91	0%	-7%

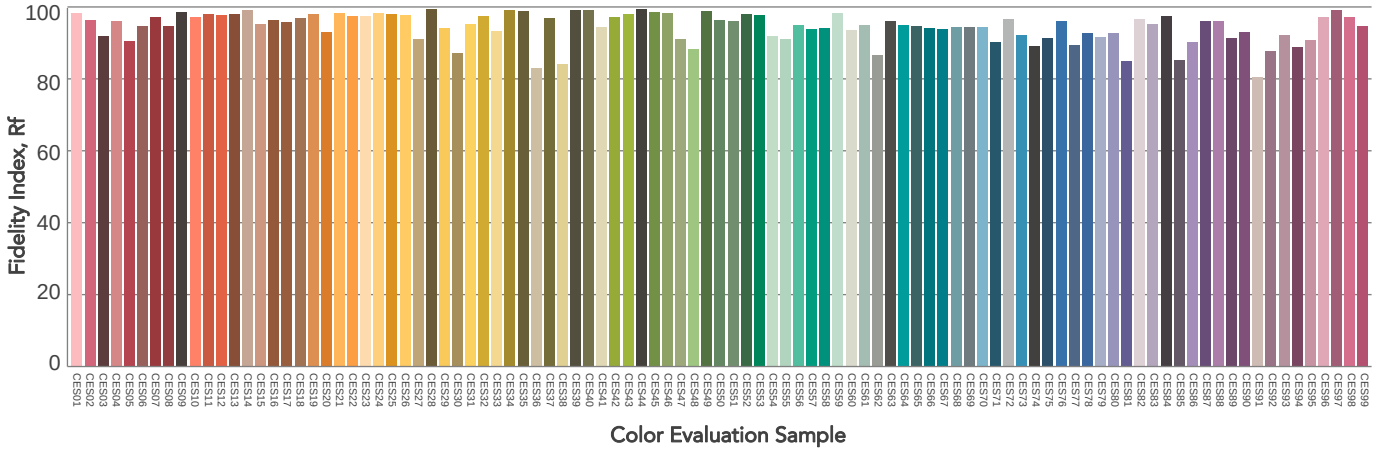












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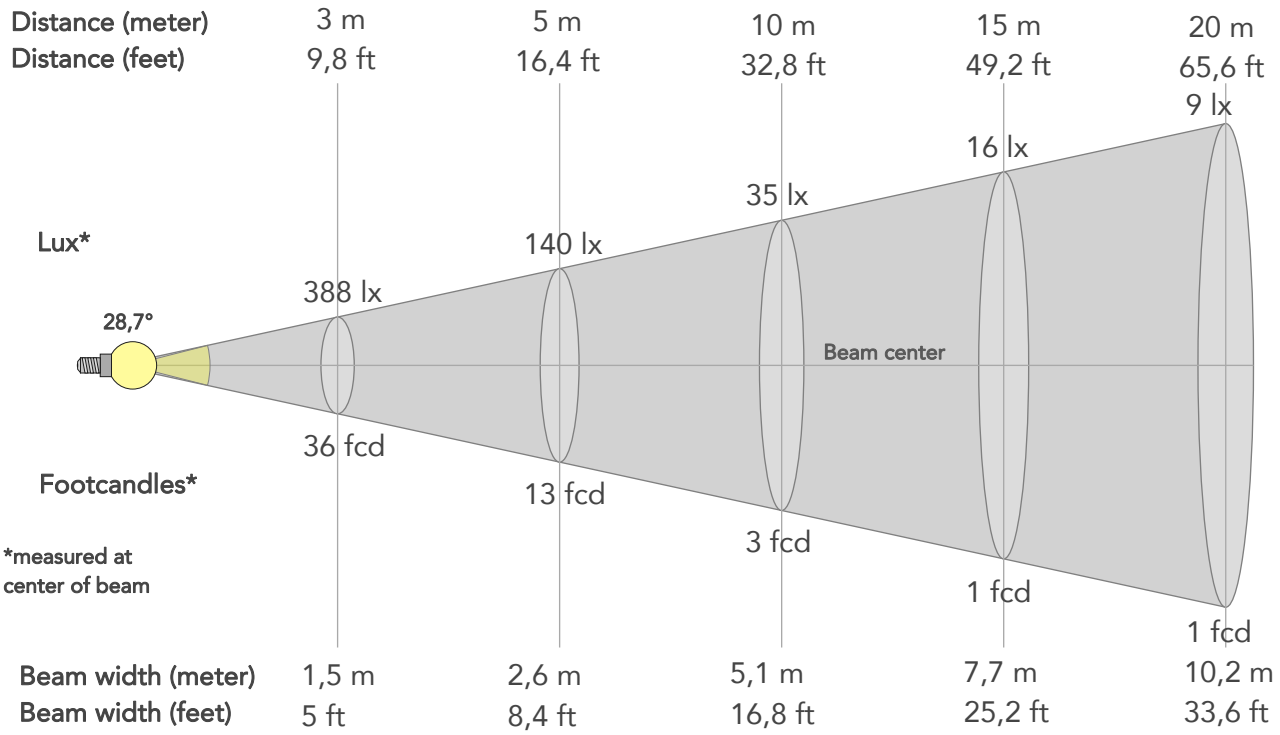
BEAM DETAILS

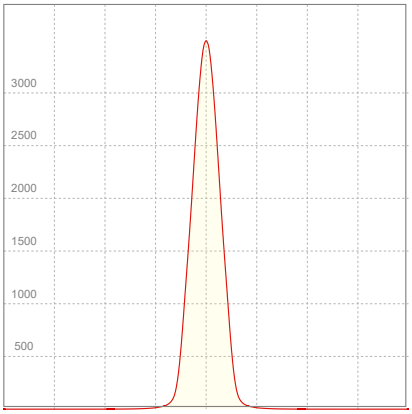
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
28,7°	49,2°	60,5°	99,4%	98,4%



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	3490lx	873lx	388lx	218lx	140lx	62lx	35lx	16lx	9lx	6lx	4lx	2lx	1lx
Footcand.	324fcd	81fcd	36fcd	20fcd	13fcd	6fcd	3fcd	1fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,5m	2m	2,6m	3,8m	5,1m	7,7m	10,2m	12,8m	15,3m	20,5m	25,6m
Beam wid.	1,7ft	3,4ft	5ft	6,7ft	8,4ft	12,6ft	16,8ft	25,2ft	33,6ft	42ft	50,3ft	67,1ft	83,9ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
226V	0,146A	31,3W	0,95	30lm/W

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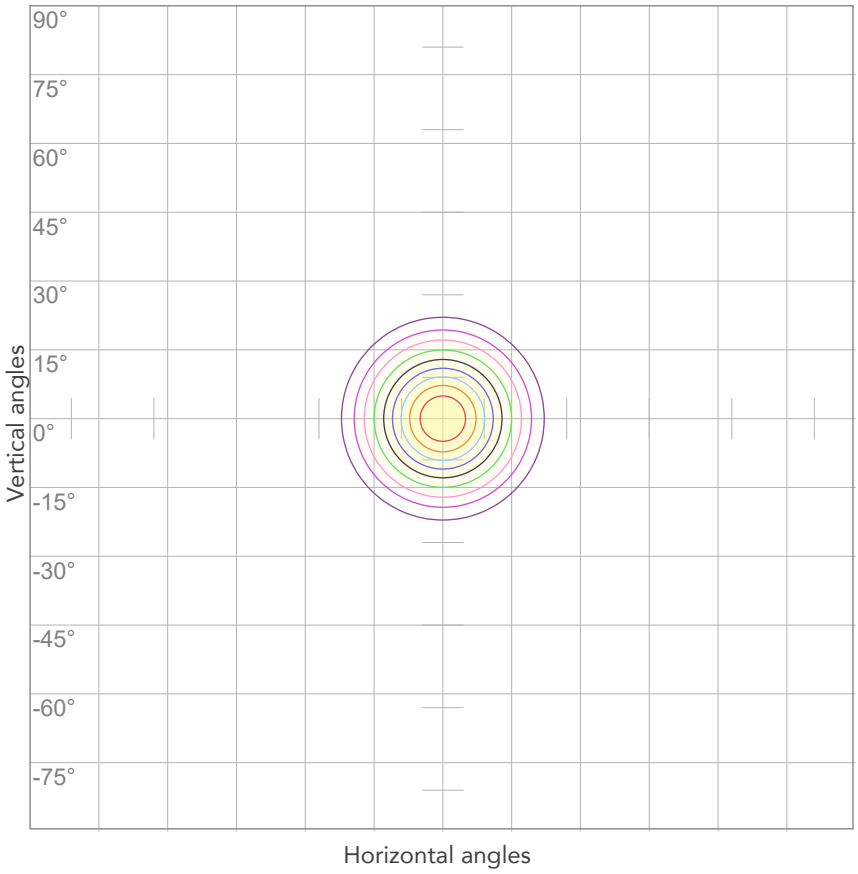
ISO DIAGRAMS

ISO CANDELA DIAGRAM



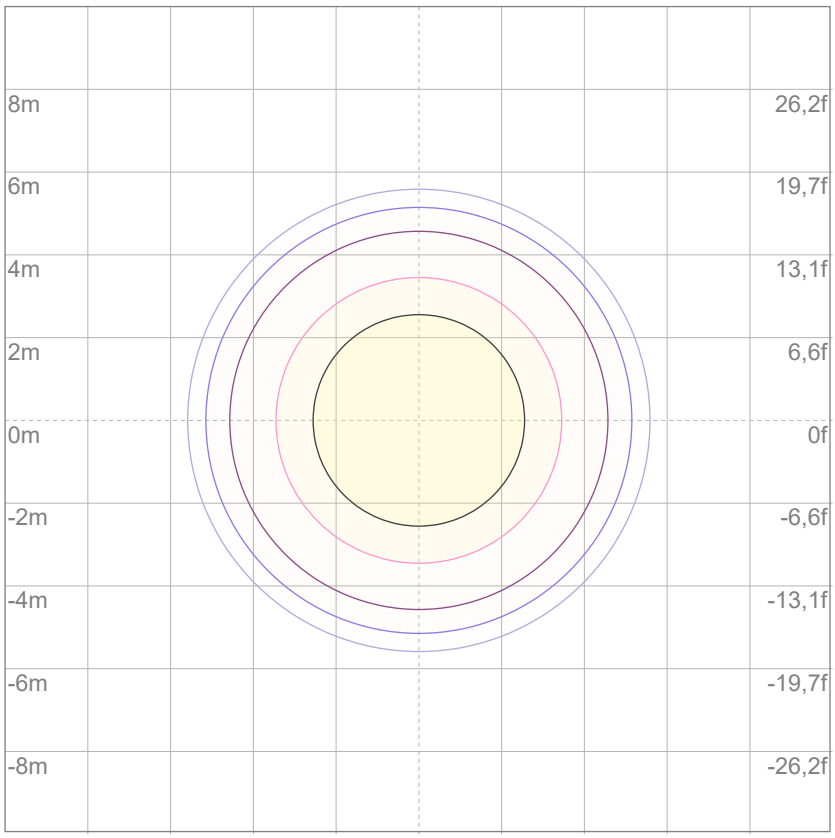
10%	349 cd
20%	698 cd
30%	1047 cd
40%	1396 cd
50%	1745 cd
60%	2094 cd
70%	2443 cd
80%	2792 cd

Conditions:

Number of c-planes: 2

Candela at center: 3490 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,05 lx
5%	1,75 lx
10%	3,49 lx
30%	10,5 lx
50%	17,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 34,9 lx

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

Total lumen output:

759 lm

Peak candela output:

8760 cd

Light quality:

CRI: 96,5

Color temperature:

2696 K

PRODUCT NAME:

ECLDISPLAY VW

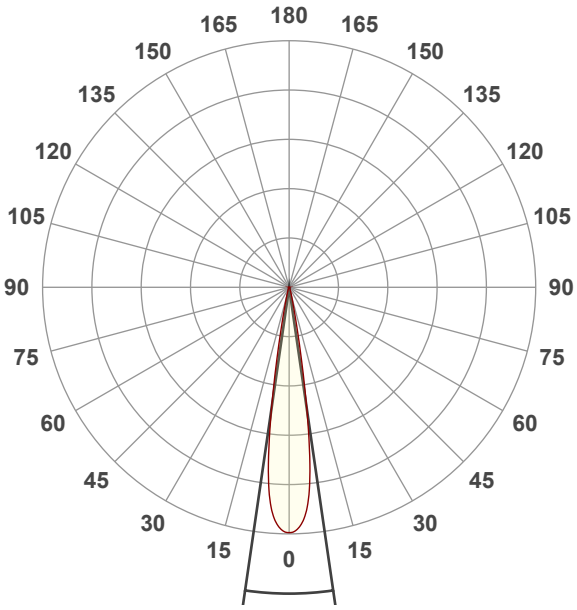
MEASURAMENT CONDITIONS:

Beam angle:
Wash 1530 Min Zoom

Target:
Warm White

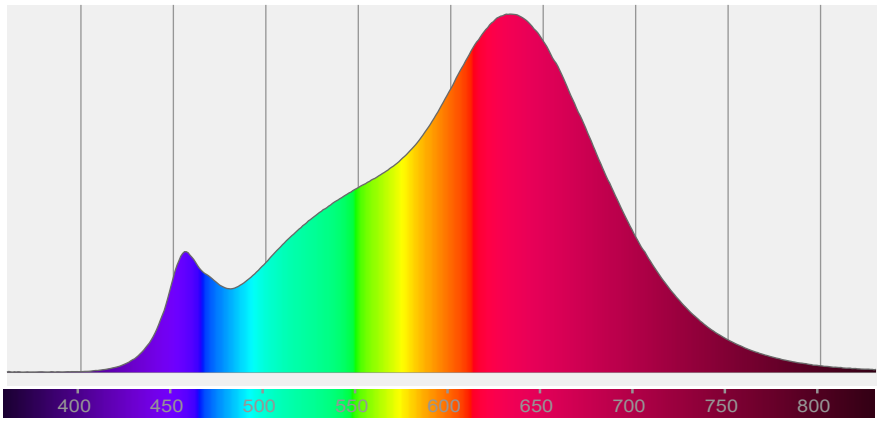
Operator:
Giacomo Matteo

Date and time:
17/06/2024 12:41:10

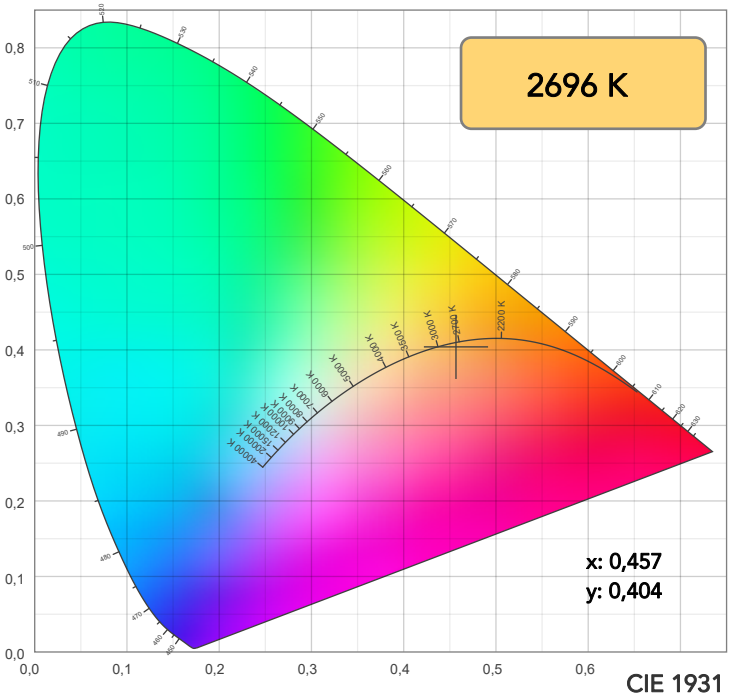


Beam angle 50%: 16,5°
Field angle 10%: 24,6°
Cut off angle 2.5%: 34,5°

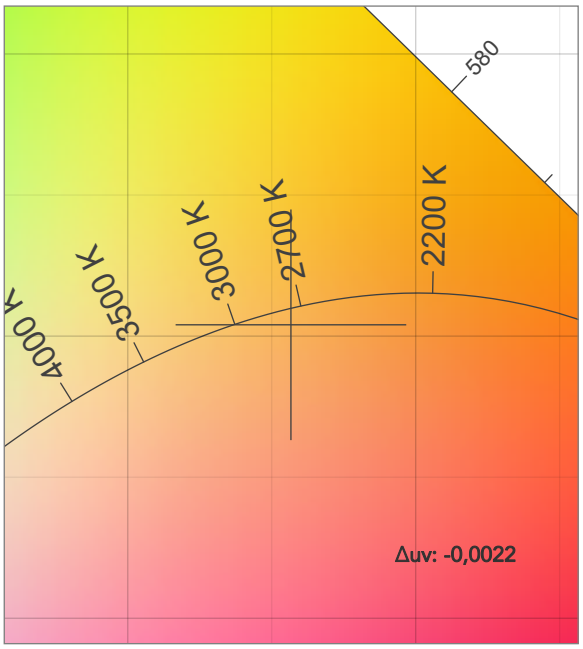
Spectra



COLOR DETAILS

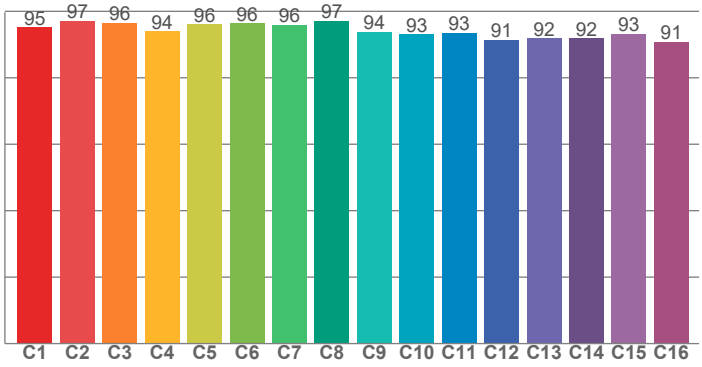


CIE 1931

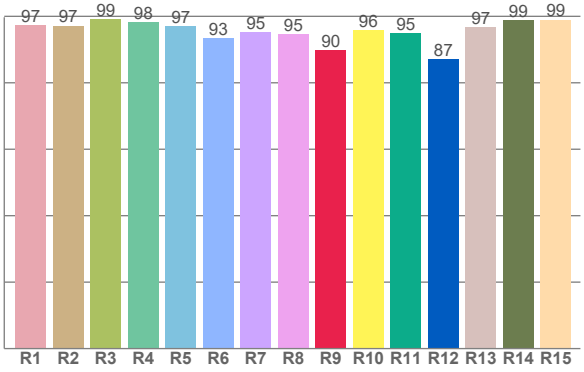


CIE 1931 ZOOM

TM30: 94,3



CRI: 96,5 (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
97,3	97,2	99,1	98,3	96,9	93,4	95,3	94,5	89,7	95,8	95,0	87,2	96,7	98,8	99,0

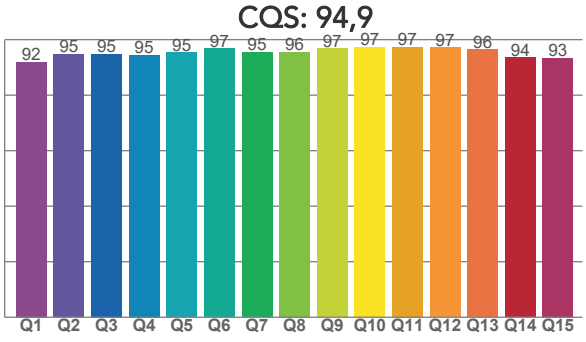
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

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

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
2696 K	96,5	89,7	94,3	100,3	94,9	97	0,457	0,404	-0,0022

TM30 DETAILS

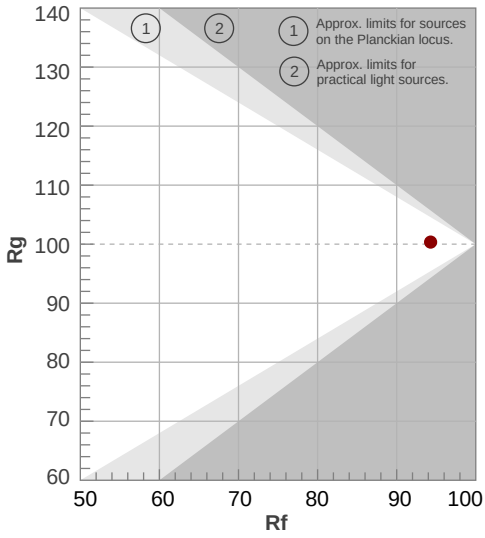
Rf 94,3

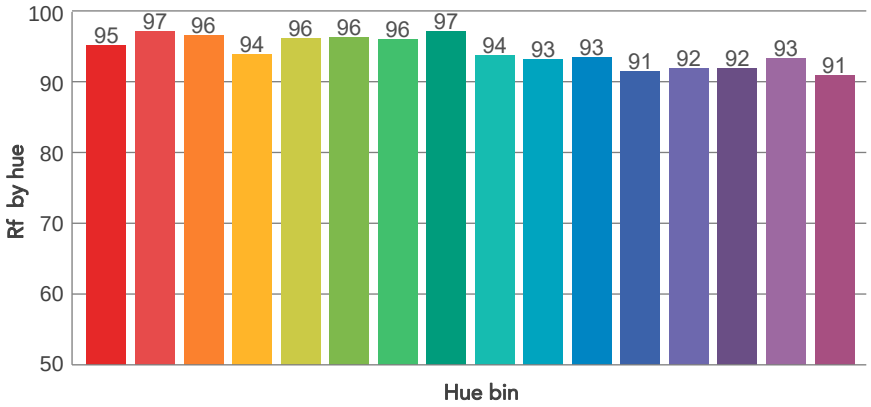
Fidelity index Rf

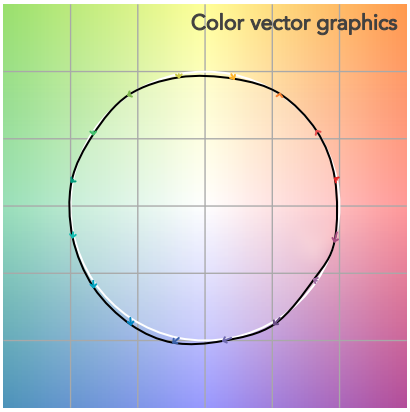
Rg 100,3

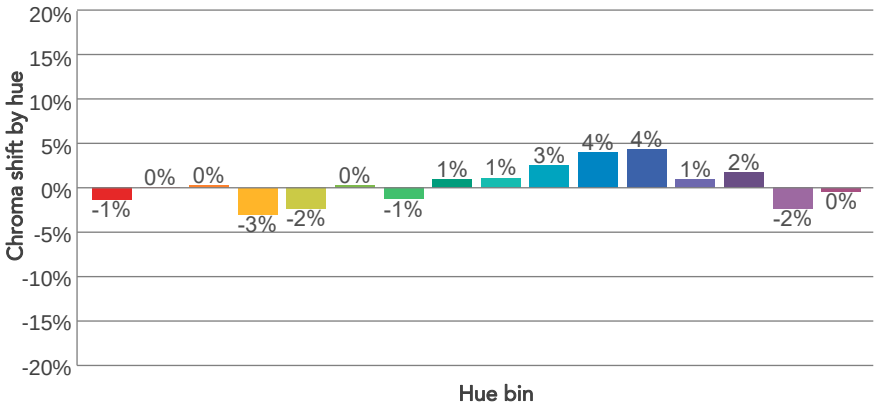
Gammut index

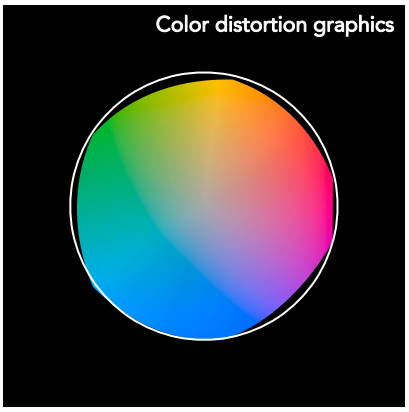
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	95	-1%	1%
2	97	0%	0%
3	96	0%	0%
4	94	-3%	-3%
5	96	-2%	0%
6	96	0%	2%
7	96	-1%	2%
8	97	1%	2%
9	94	1%	4%
10	93	3%	4%
11	93	4%	3%
12	91	4%	-3%
13	92	1%	-6%
14	92	2%	-6%
15	93	-2%	0%
16	91	0%	-7%

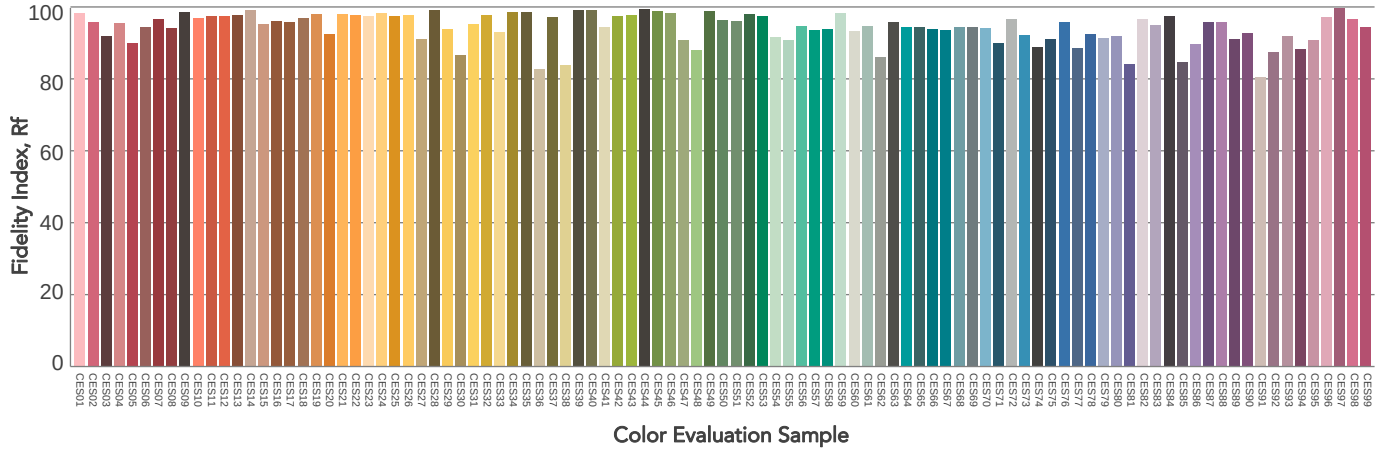












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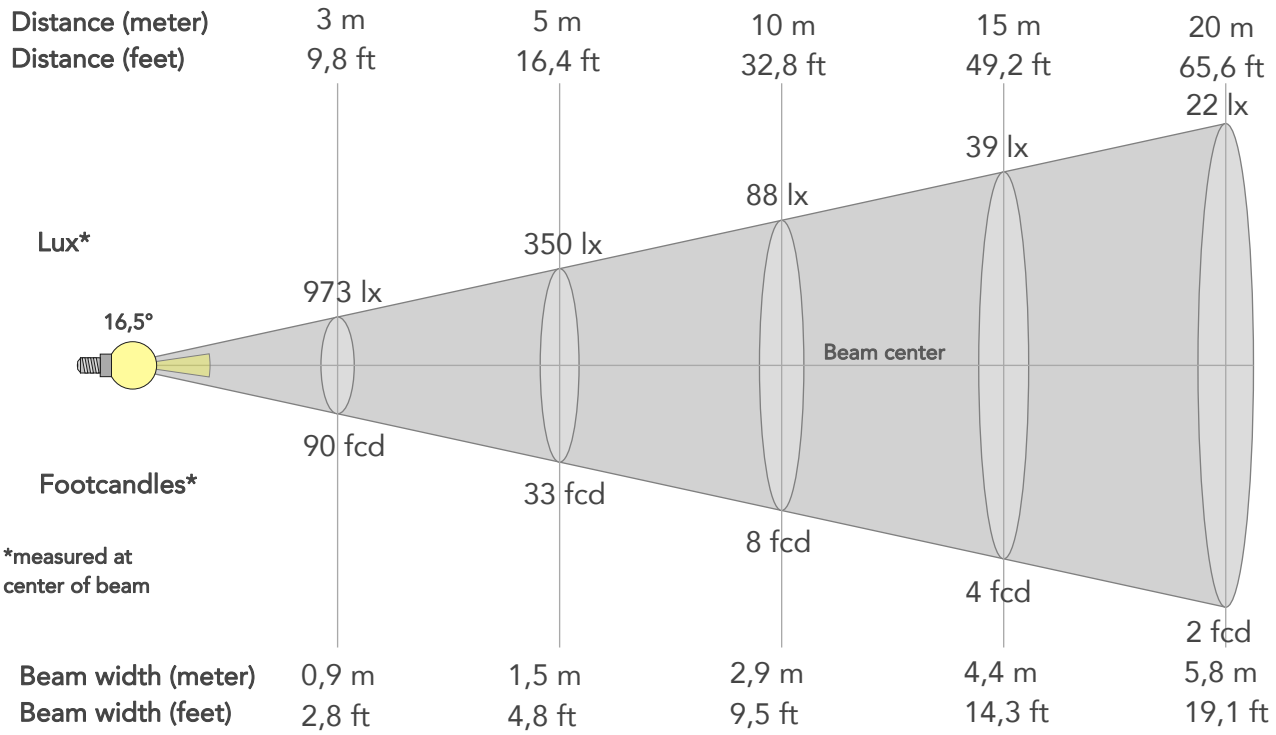
BEAM DETAILS

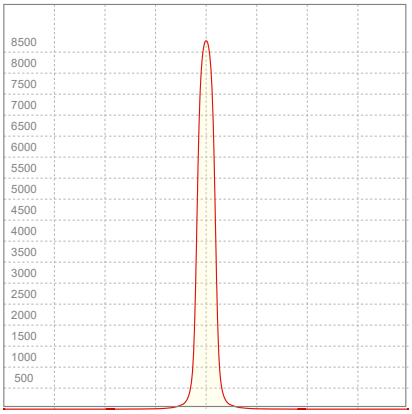
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16,5°	24,6°	34,5°	99,2%	98,3%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	8760lx	2190lx	973lx	547lx	350lx	156lx	88lx	39lx	22lx	14lx	10lx	5lx	4lx
Footcand.	814fcd	203fcd	90fcd	51fcd	33fcd	14fcd	8fcd	4fcd	2fcd	1fcd	1fcd	1fcd	0fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,5m	2,2m	2,9m	4,4m	5,8m	7,3m	8,7m	11,6m	14,5m
Beam wid.	1ft	1,9ft	2,8ft	3,8ft	4,8ft	7,1ft	9,5ft	14,3ft	19,1ft	23,8ft	28,6ft	38,1ft	47,7ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
226V	0,145A	31,0W	0,95	24lm/W

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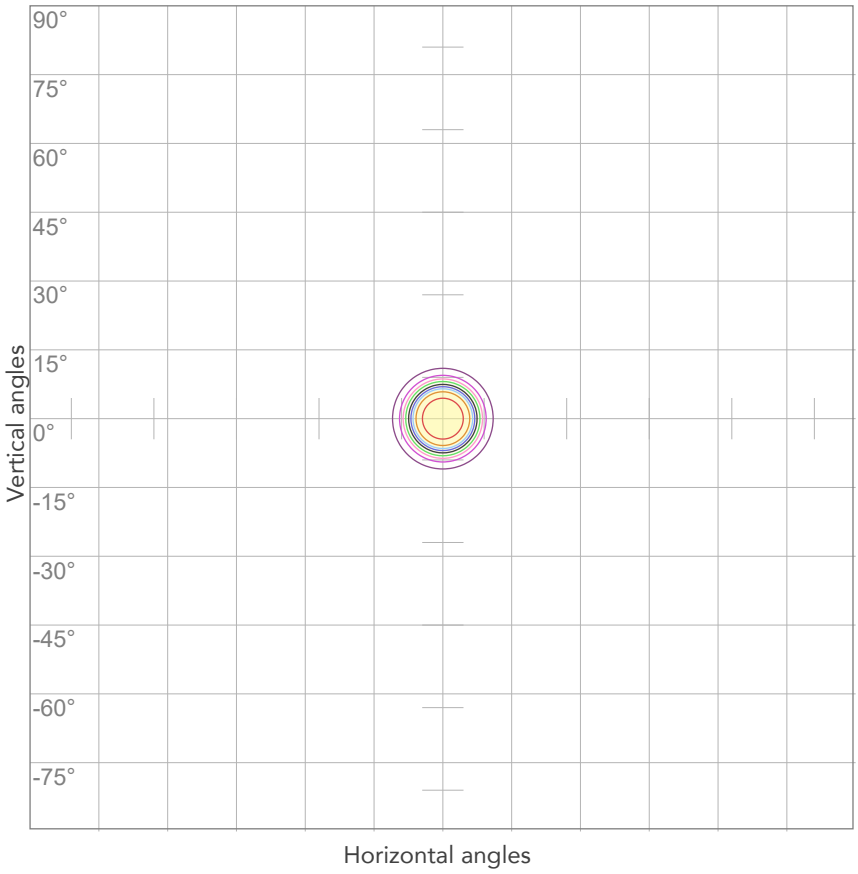
ISO DIAGRAMS

ISO CANDELA DIAGRAM



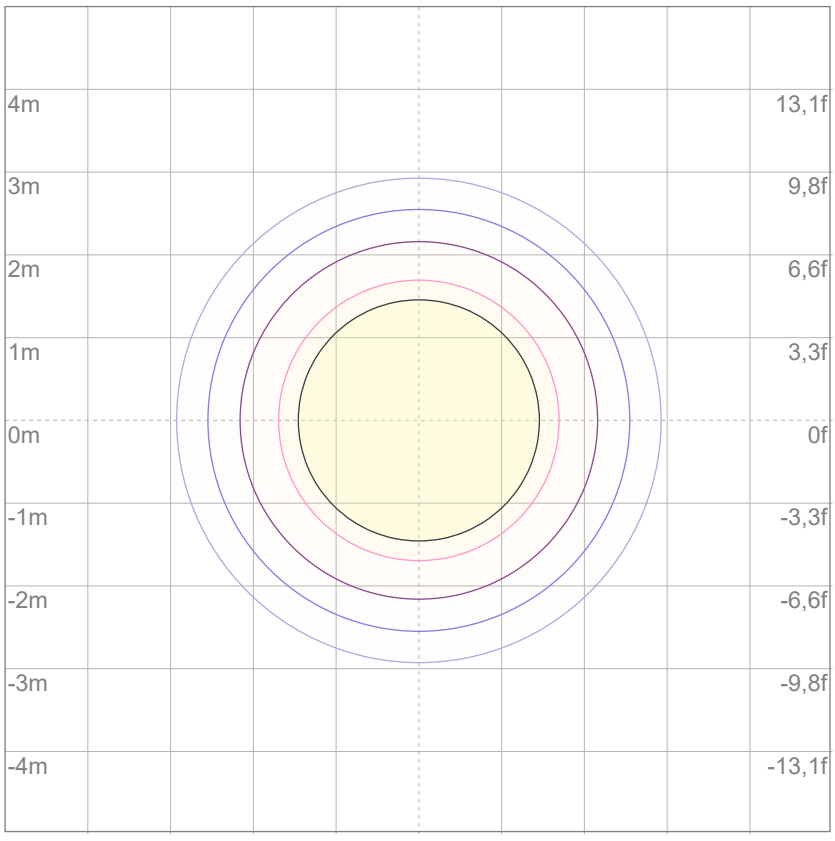
10%	876 cd
20%	1752 cd
30%	2628 cd
40%	3504 cd
50%	4380 cd
60%	5256 cd
70%	6132 cd
80%	7008 cd

Conditions:

Number of c-planes: 2

Candela at center: 8760 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	2,63 lx
5%	4,38 lx
10%	8,76 lx
30%	26,3 lx
50%	43,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 87,6 lx

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

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Total lumen output:

1341 lm

Peak candela output:

4971 cd

Light quality:

CRI: 96,5

Color temperature:

5968 K

PRODUCT NAME:

ECLDISPLAY VW

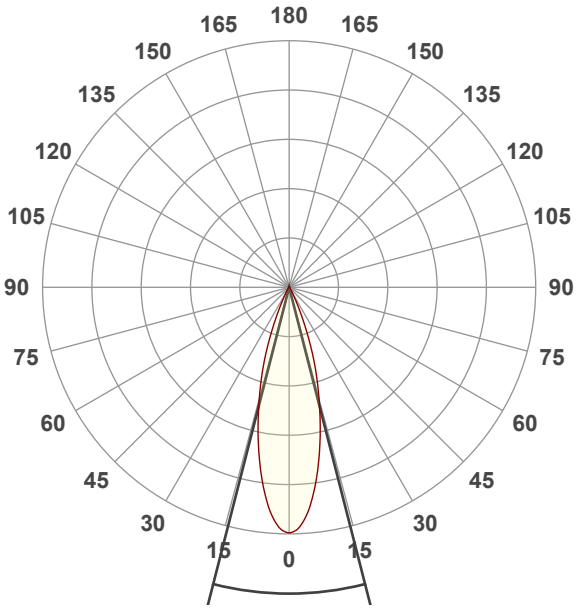
MEASURAMENT CONDITIONS:

Beam angle:
Wash 1530 Max Zoom

Target:
Cold White

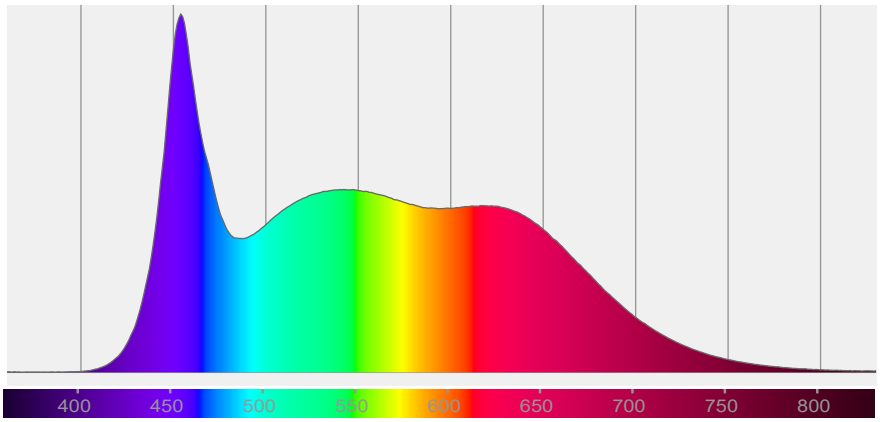
Operator:
Giacomo Matteo

Date and time:
17/06/2024 12:19:43

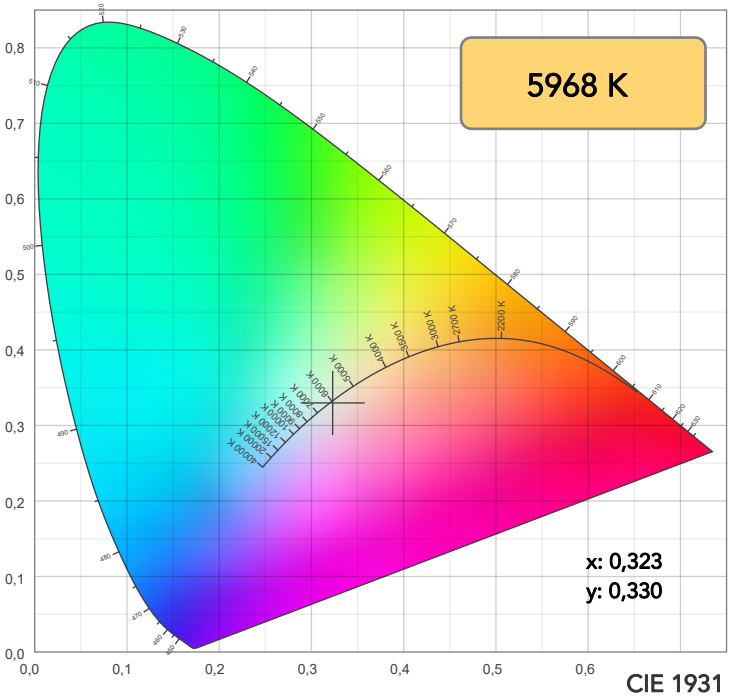


Beam angle 50%: 28,7°
Field angle 10%: 49,2°
Cut off angle 2.5%: 60,8°

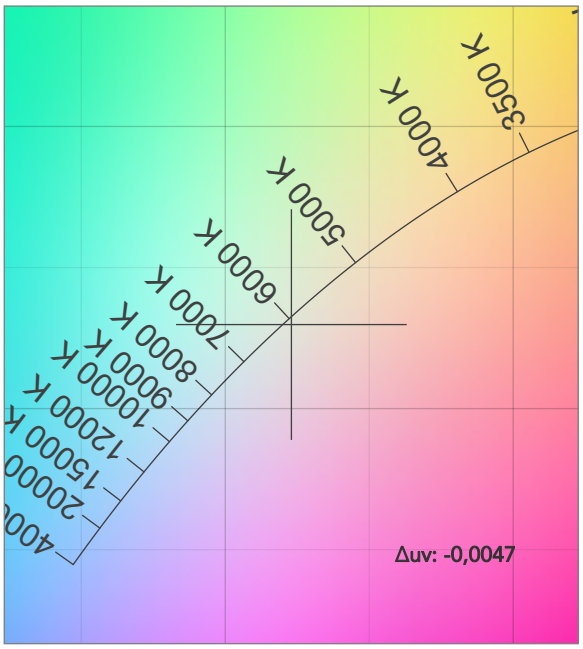
Spectra



COLOR DETAILS

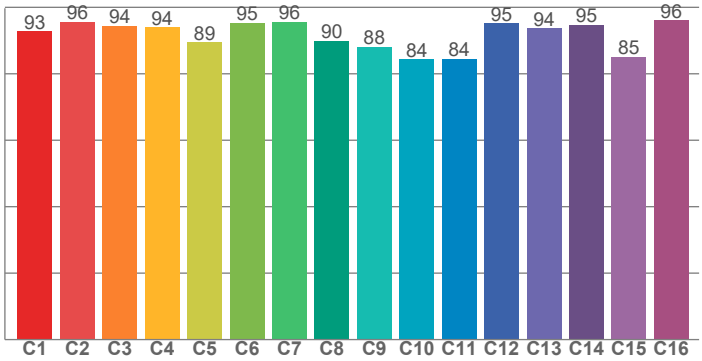


CIE 1931

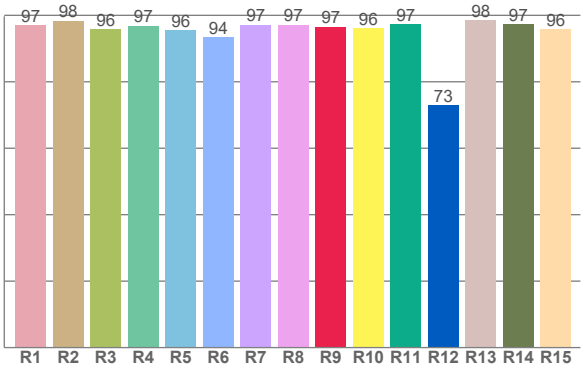


CIE 1931 ZOOM

TM30: 91,4



CRI: 96,5 (R1-R8)



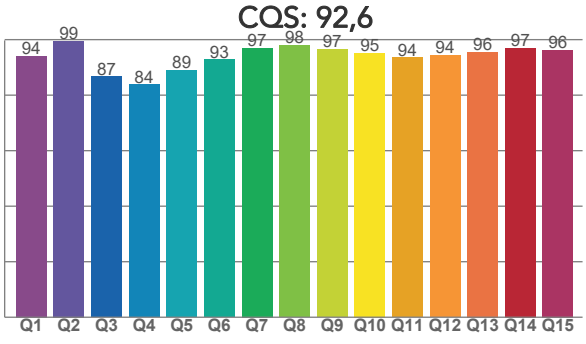
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97,1	98,4	95,9	96,9	95,5	93,5	97,2	97,2	96,5	96,1	97,3	73,0	98,5	97,4	95,8

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,8	95,6	94,4	94,0	89,5	95,3	95,6	89,9	88,2	84,3	84,4	95,2	93,7	94,7	85,1	96,1

CQS: 92,6



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,1	99,5	86,7	83,8	88,9	92,8	97,0	98,0	96,5	95,1	93,6	94,4	95,6	97,1	96,3

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
5968 K	96,5	96,5	91,4	99,7	92,6	97	0,323	0,330	-0,0047

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TM30 DETAILS

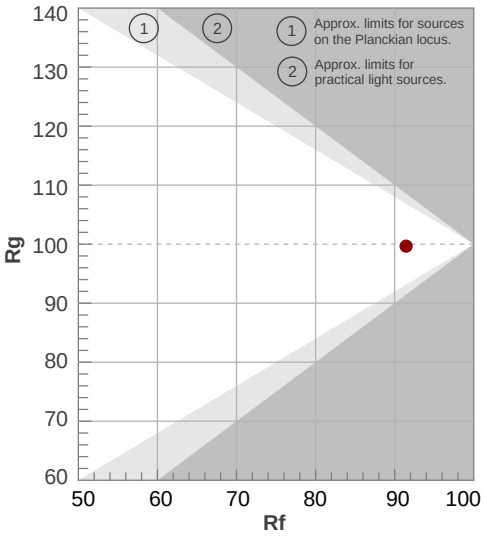
Rf 91,4

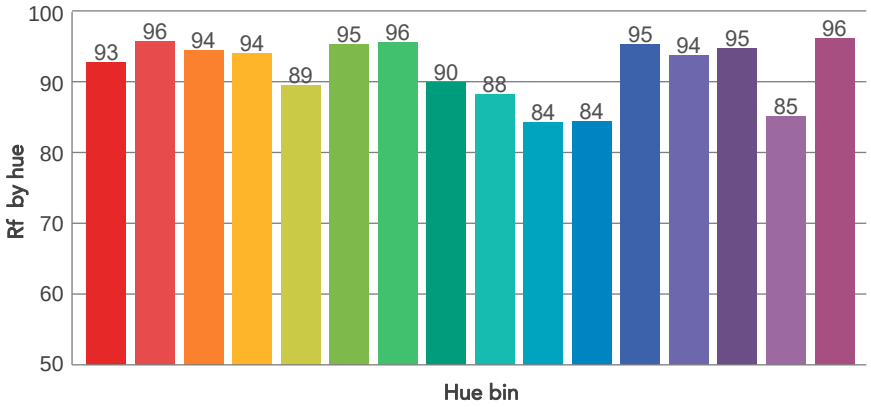
Fidelity index Rf

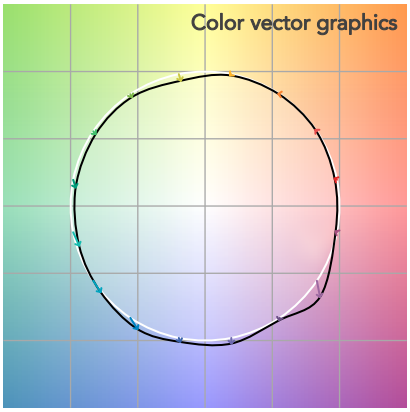
Rg 99,7

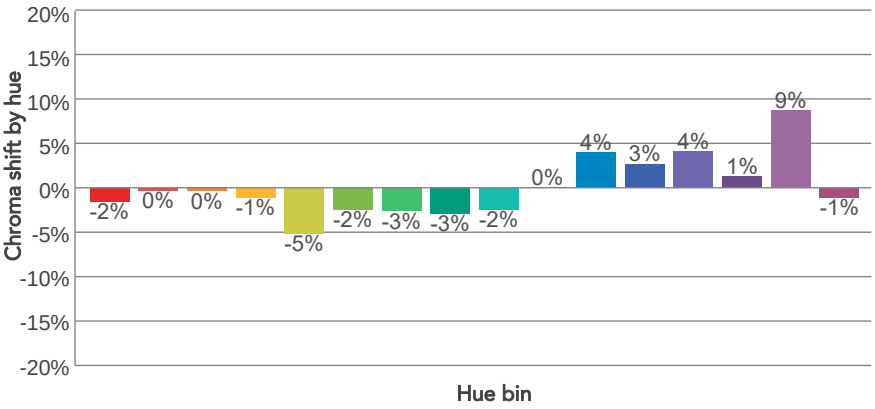
Gamut index

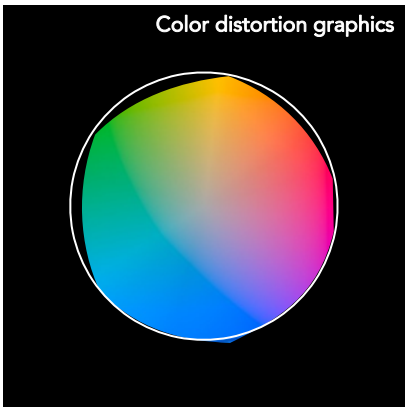
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	93	-2%	1%
2	96	0%	2%
3	94	0%	1%
4	94	-1%	1%
5	89	-5%	0%
6	95	-2%	0%
7	96	-3%	1%
8	90	-3%	5%
9	88	-2%	11%
10	84	0%	10%
11	84	4%	9%
12	95	3%	2%
13	94	4%	-1%
14	95	1%	-1%
15	85	9%	-9%
16	96	-1%	0%

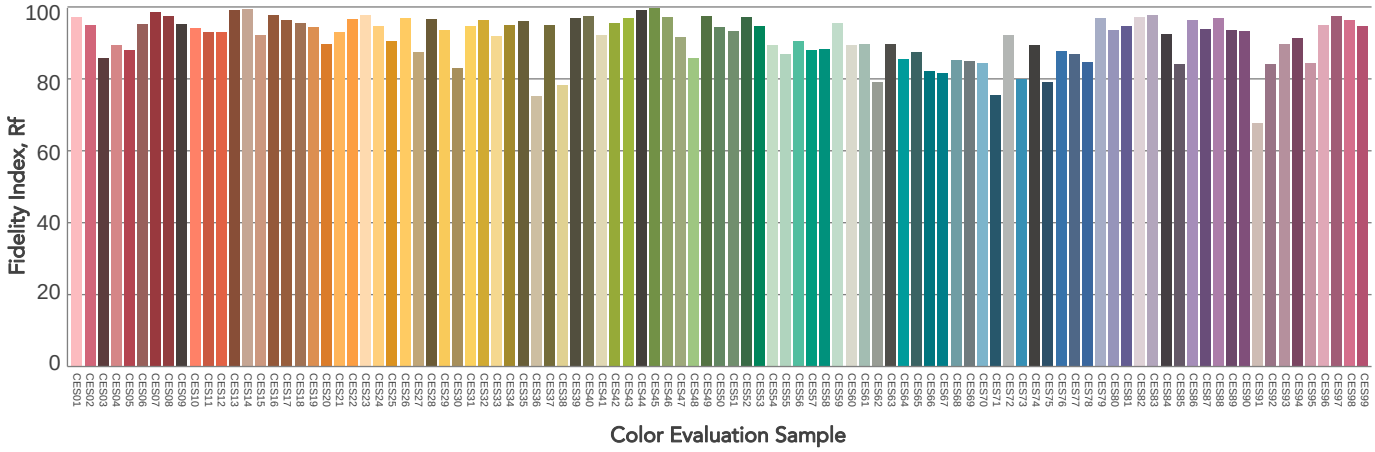












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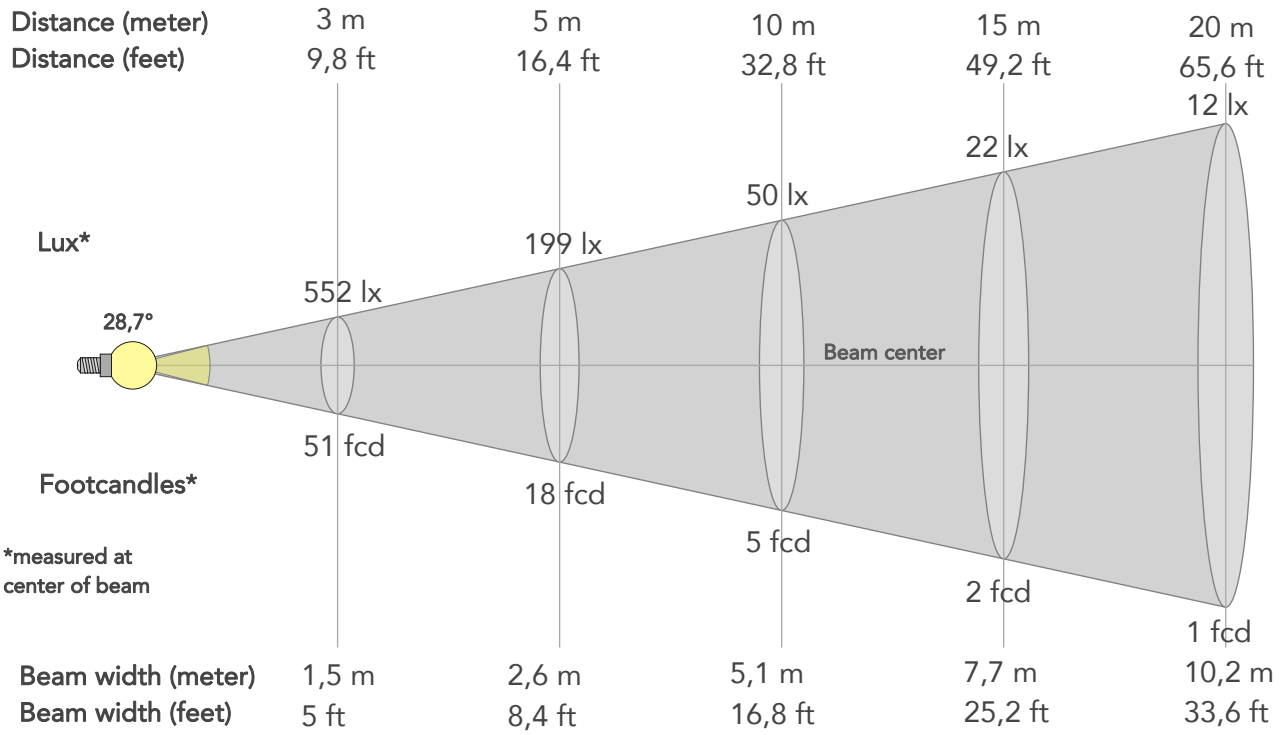
BEAM DETAILS

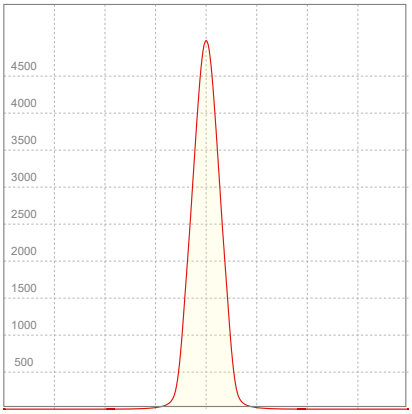
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
28,7°	49,2°	60,8°	99,5%	98,4%



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	4971lx	1243lx	552lx	311lx	199lx	88lx	50lx	22lx	12lx	8lx	6lx	3lx	2lx
Footcand.	462fcd	115fcd	51fcd	29fcd	18fcd	8fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,5m	2m	2,6m	3,8m	5,1m	7,7m	10,2m	12,8m	15,3m	20,5m	25,6m
Beam wid.	1,7ft	3,4ft	5ft	6,7ft	8,4ft	12,6ft	16,8ft	25,2ft	33,6ft	42ft	50,3ft	67,1ft	83,9ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
226V	0,148A	31,7W	0,95	42lm/W

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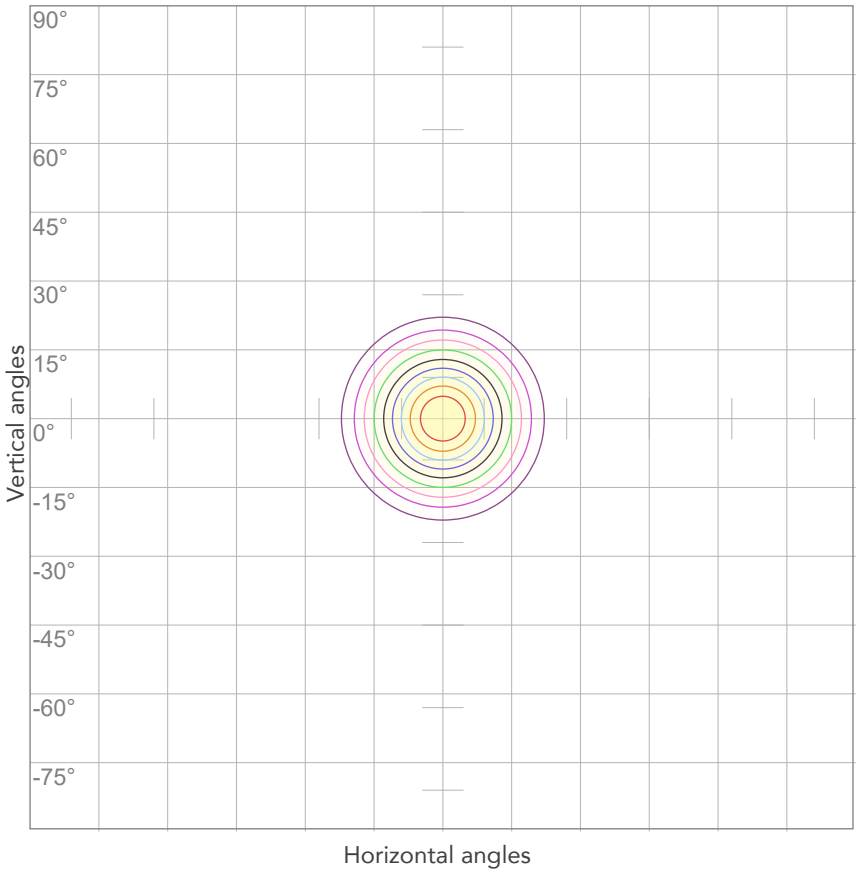
ISO DIAGRAMS

ISO CANDELA DIAGRAM



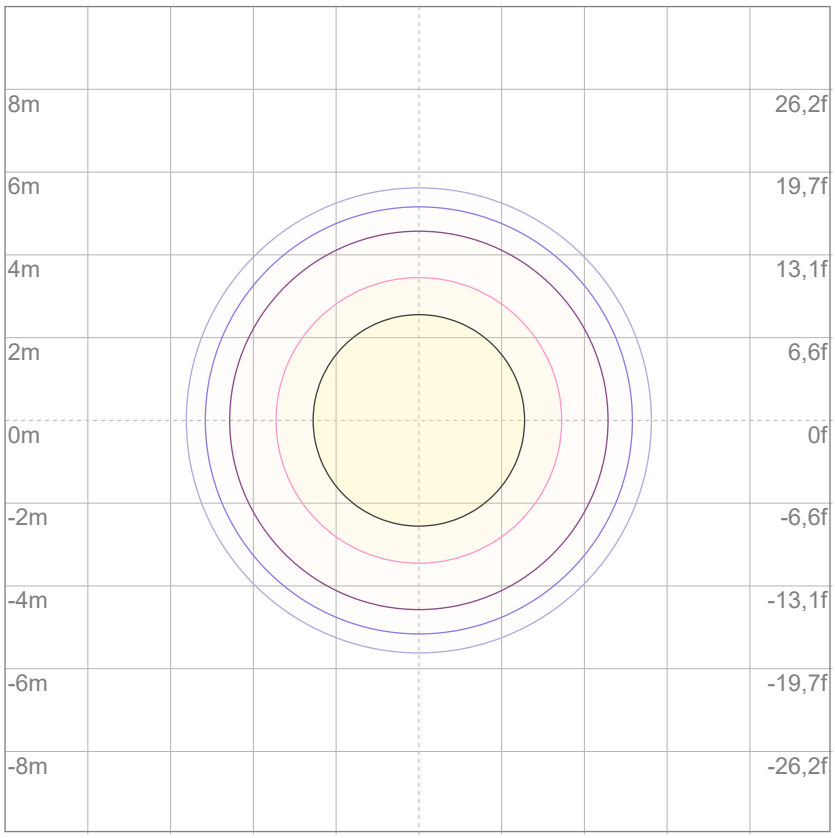
10%	497 cd
20%	994 cd
30%	1491 cd
40%	1989 cd
50%	2486 cd
60%	2983 cd
70%	3480 cd
80%	3977 cd

Conditions:

Number of c-planes: 2

Candela at center: 4971 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,49 lx
5%	2,49 lx
10%	4,97 lx
30%	14,9 lx
50%	24,9 lx

Conditions:

Number of c-planes: 2

Lux at center: 49,7 lx

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

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Total lumen output:

1073 lm

Peak candela output:

12373 cd

Light quality:

CRI: 96,0

Color temperature:

6130 K

PRODUCT NAME:

ECLDISPLAY VW

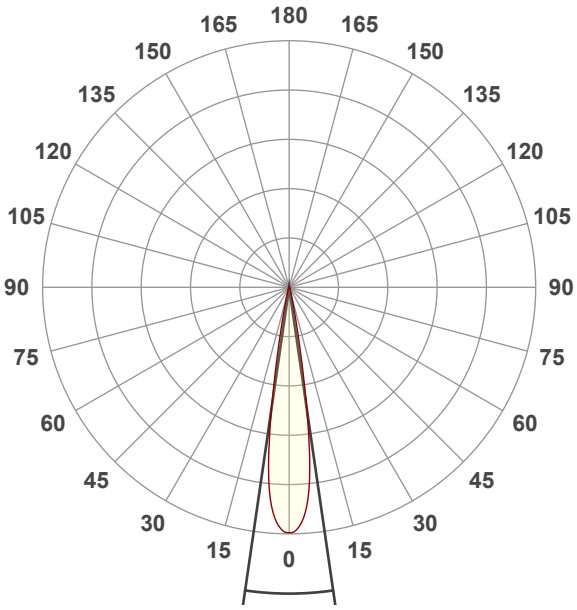
MEASURAMENT CONDITIONS:

Beam angle:
Wash 1530 Min Zoom

Target:
Cold White

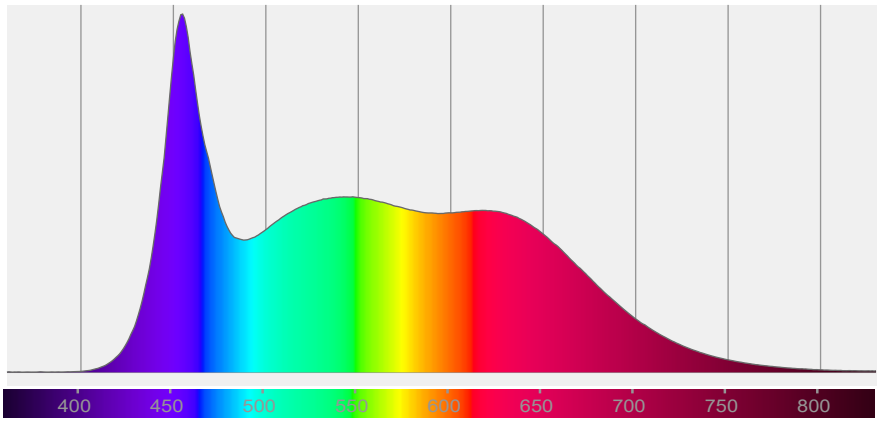
Operator:
Giacomo Matteo

Date and time:
17/06/2024 12:42:44

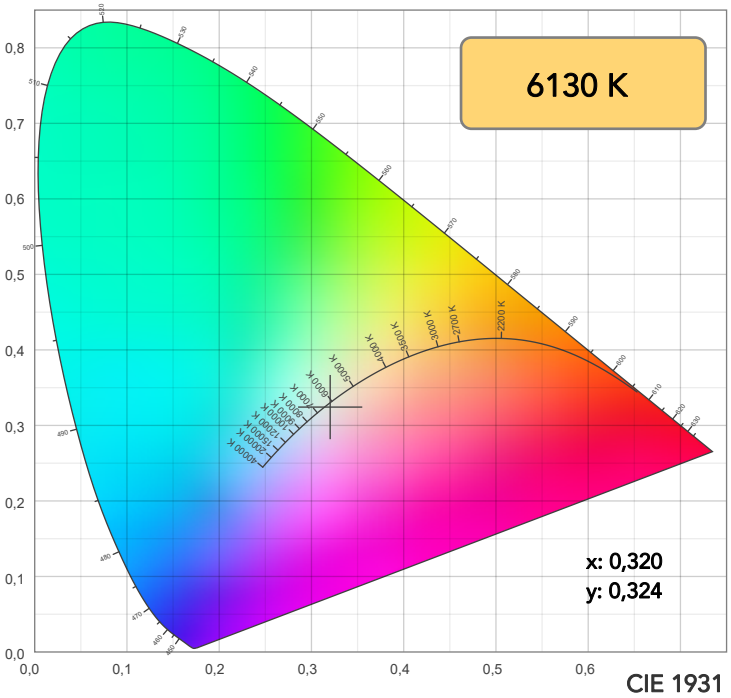


Beam angle 50%: 16,5°
Field angle 10%: 24,7°
Cut off angle 2.5%: 34,7°

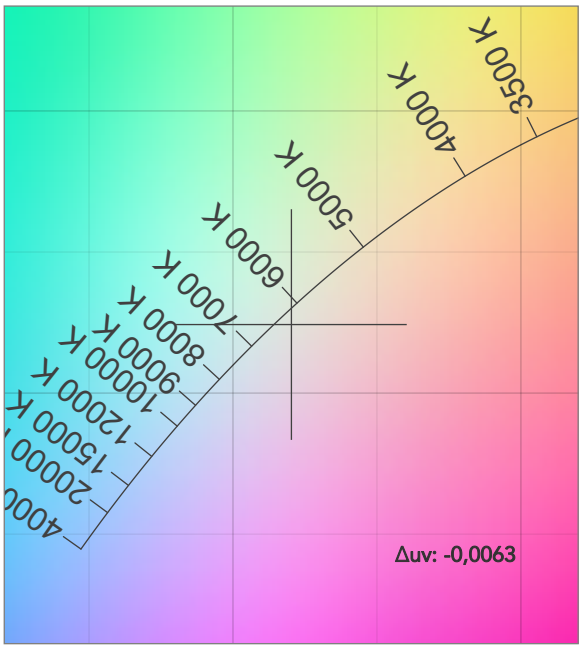
Spectra



COLOR DETAILS

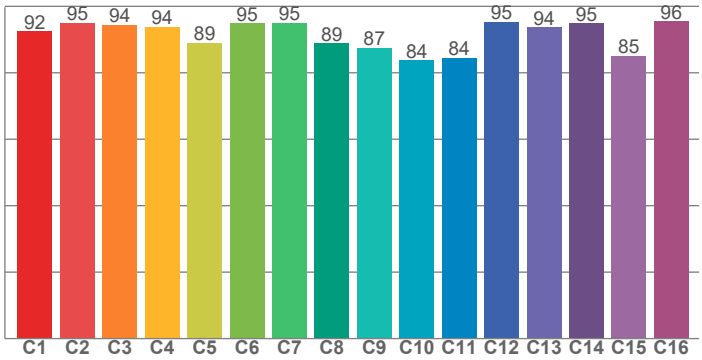


CIE 1931

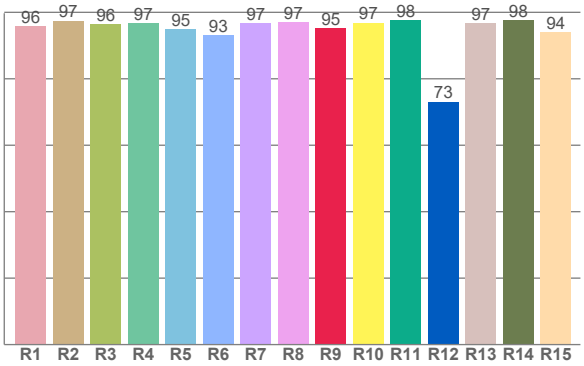


CIE 1931 ZOOM

TM30: 91,1



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
95,9	97,4	96,4	96,7	95,0	93,1	96,7	97,1	95,3	96,9	97,5	73,1	96,8	97,6	94,1

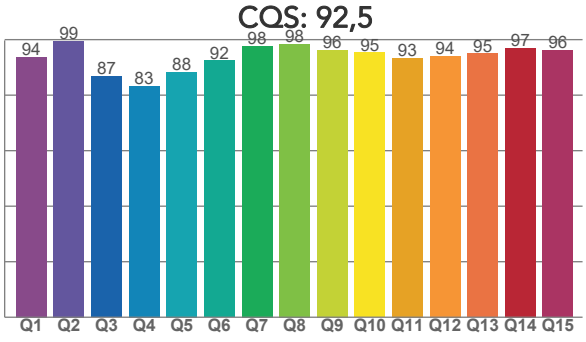
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,4	95,0	94,4	93,9	89,0	94,8	95,0	88,8	87,5	83,8	84,5	95,3	93,6	94,8	85,1	95,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,8	99,5	86,8	83,3	88,4	92,5	97,6	98,4	96,3	95,3	93,4	94,0	95,0	97,0	96,2

CQS: 92,5



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
6130 K	96,0	95,3	91,1	99,8	92,5	96	0,320	0,324	-0,0063

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TM30 DETAILS

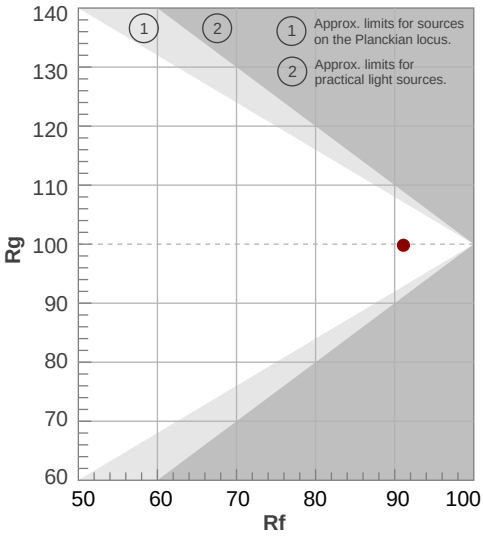
Rf 91,1

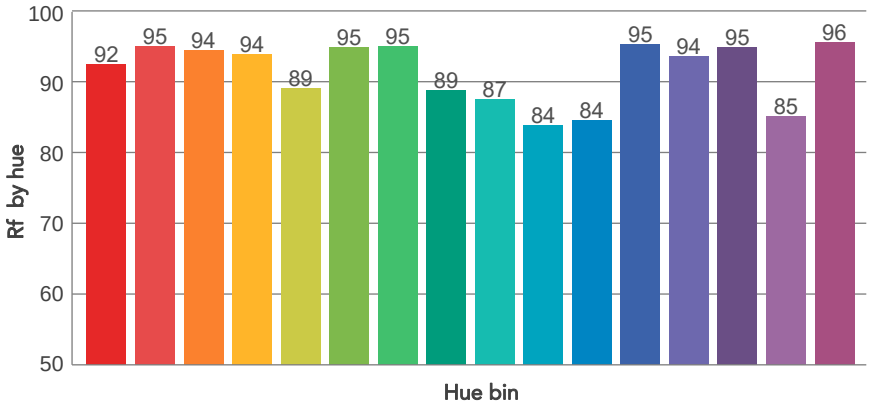
Fidelity index Rf

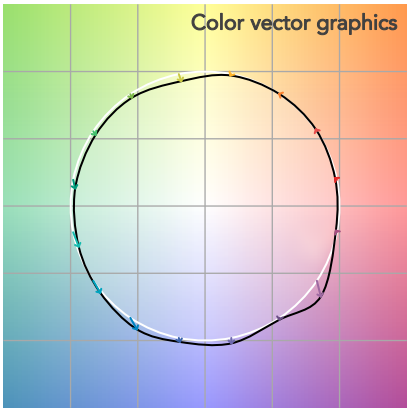
Rg 99,8

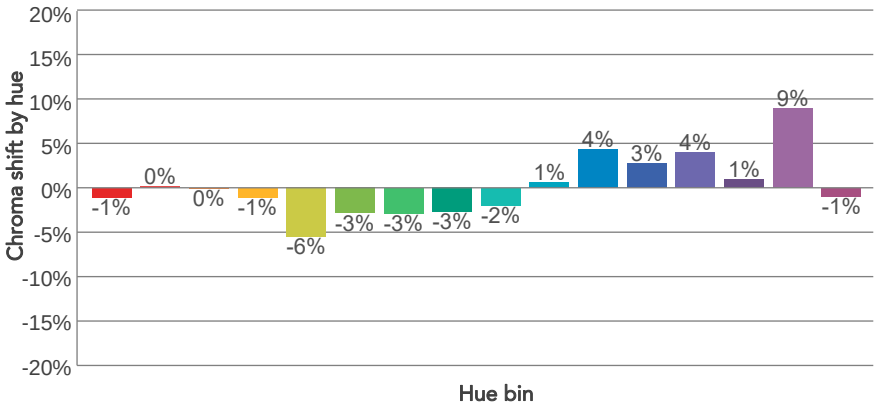
Gamut index

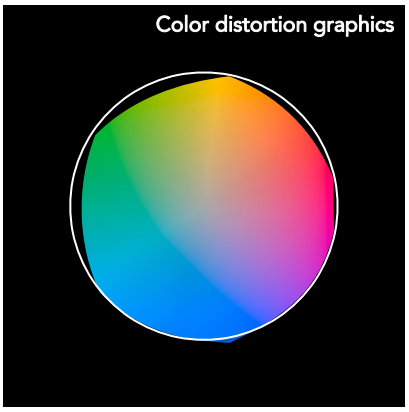
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	92	-1%	2%
2	95	0%	2%
3	94	0%	1%
4	94	-1%	0%
5	89	-6%	-1%
6	95	-3%	0%
7	95	-3%	1%
8	89	-3%	6%
9	87	-2%	11%
10	84	1%	10%
11	84	4%	9%
12	95	3%	1%
13	94	4%	-1%
14	95	1%	-1%
15	85	9%	-8%
16	96	-1%	1%

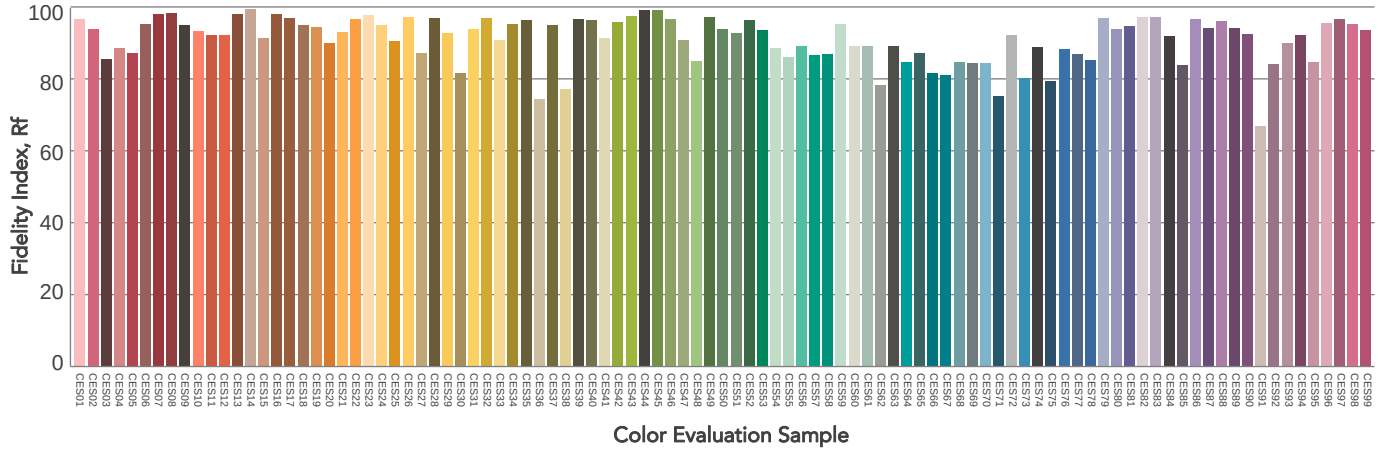












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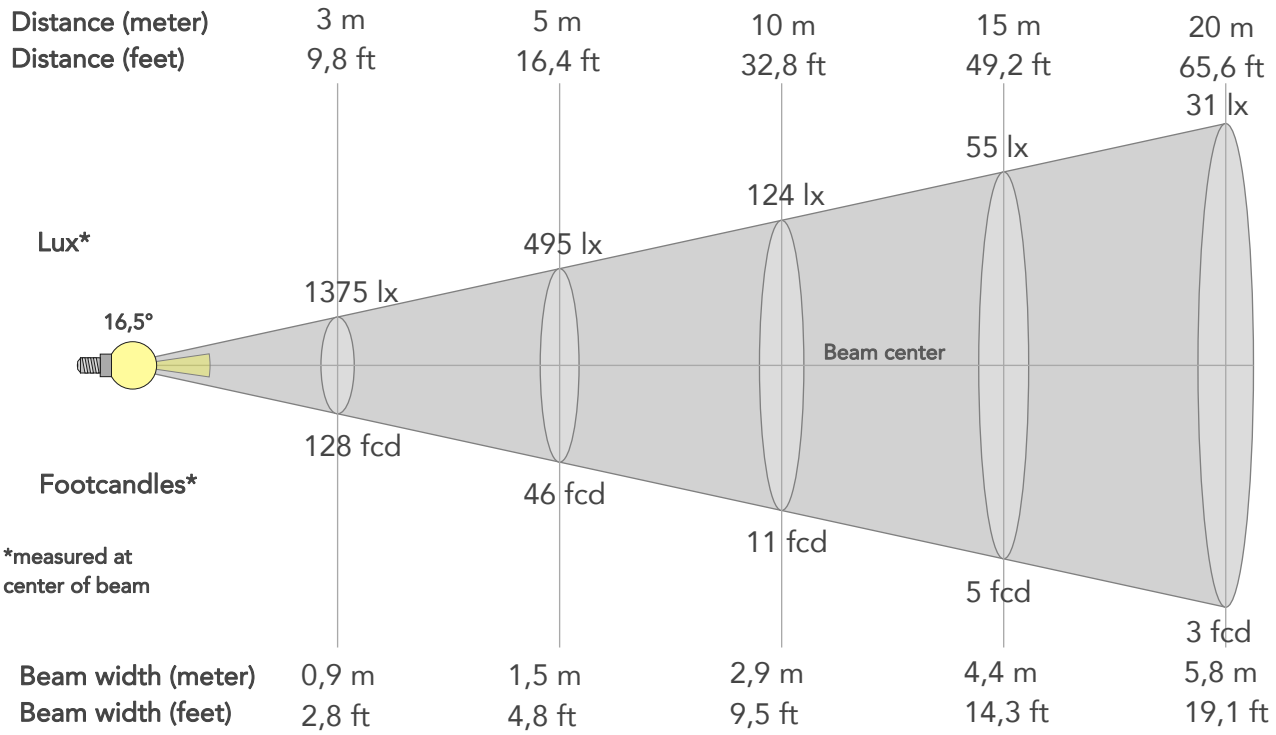
BEAM DETAILS

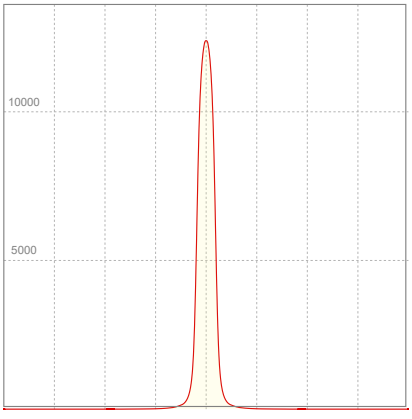
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16,5°	24,7°	34,7°	99,3%	98,3%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	12373lx	3093lx	1375lx	773lx	495lx	220lx	124lx	55lx	31lx	20lx	14lx	8lx	5lx
Footcand.	1149fcd	287fcd	128fcd	72fcd	46fcd	20fcd	11fcd	5fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,5m	2,2m	2,9m	4,4m	5,8m	7,3m	8,7m	11,6m	14,5m
Beam wid.	1ft	1,9ft	2,8ft	3,8ft	4,8ft	7,1ft	9,5ft	14,3ft	19,1ft	23,8ft	28,6ft	38,1ft	47,6ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
226V	0,146A	31,4W	0,95	34lm/W

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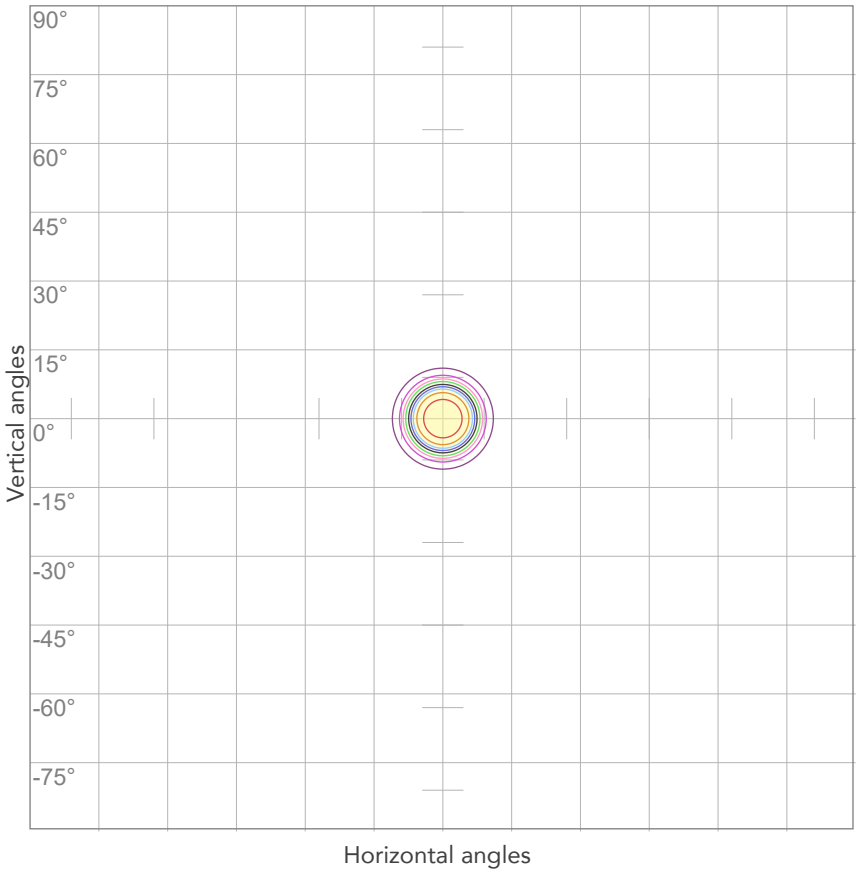
ISO DIAGRAMS

ISO CANDELA DIAGRAM



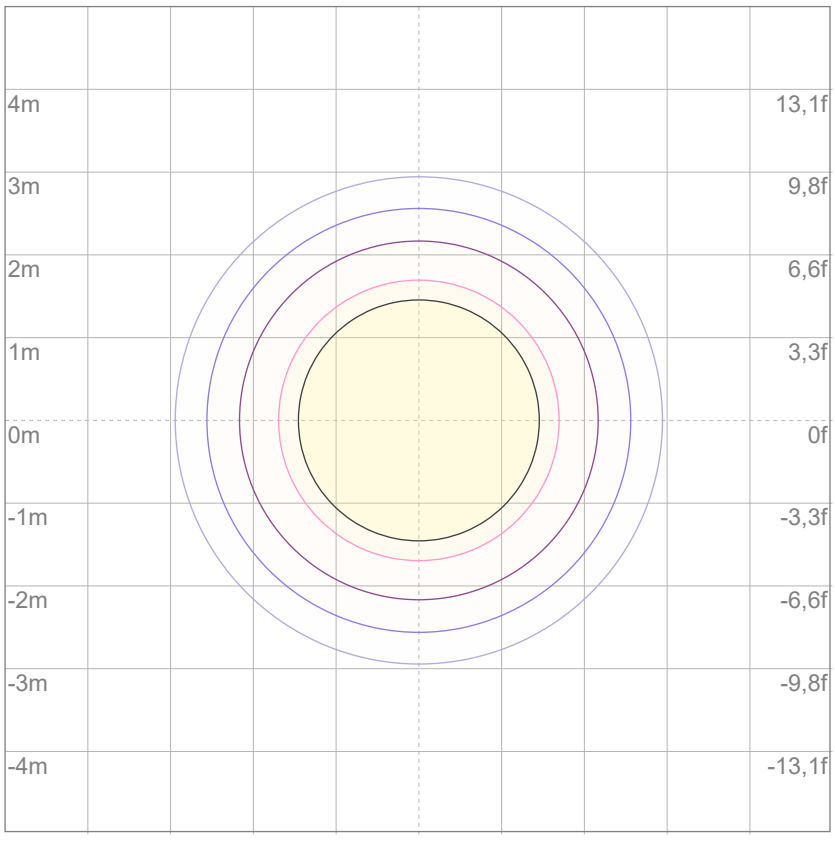
10%	1237 cd
20%	2475 cd
30%	3712 cd
40%	4949 cd
50%	6186 cd
60%	7424 cd
70%	8661 cd
80%	9898 cd

Conditions:

Number of c-planes: 2

Candela at center: 12373 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	3,71 lx
5%	6,19 lx
10%	12,4 lx
30%	37,1 lx
50%	61,9 lx

Conditions:

Number of c-planes: 2

Lux at center: 124 lx

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

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