PROLiGHTS

Photometric Test Report

ArcSpot SVW

IP66 Spot featuring 1’600 lumen with

7 x 4W Variable White source,

15° Degree Lens

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:

1630 lm

Peak candela output:

17116 cd

Light quality:

CRI: 93,8

Color temperature:

4322 K

PRODUCT NAME:

ARCSPOTS VW

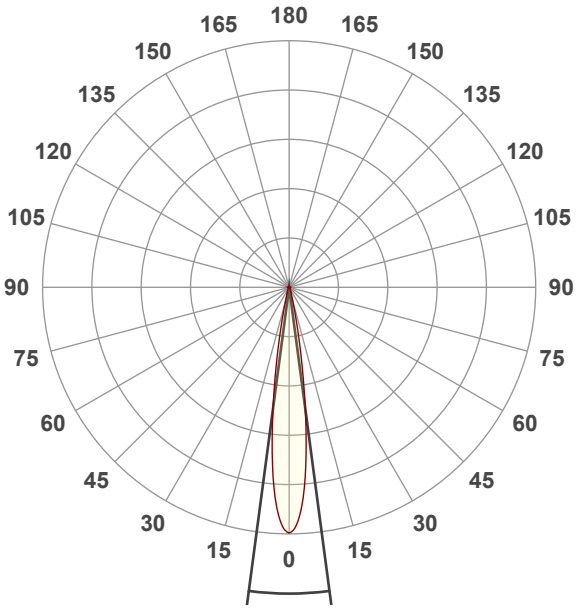
MEASURAMENT CONDITIONS:

Beam angle:
15°

Target:
Full On

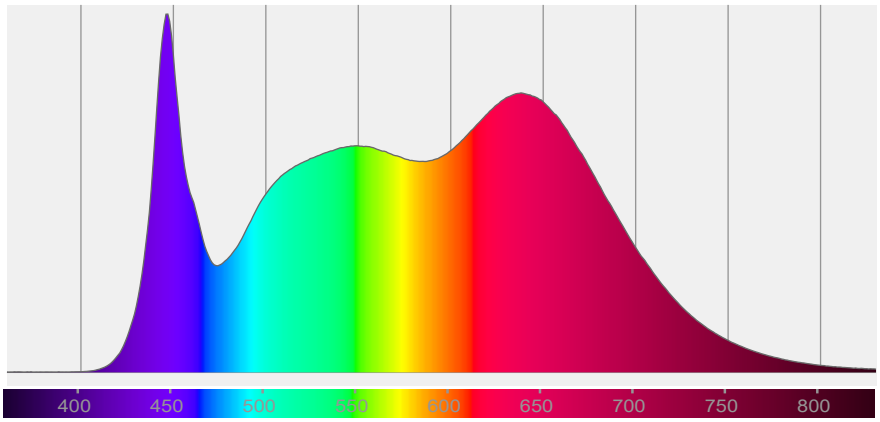
Operator:
Salvatore Giglio

Date and time:
20/02/2024 12:21:02

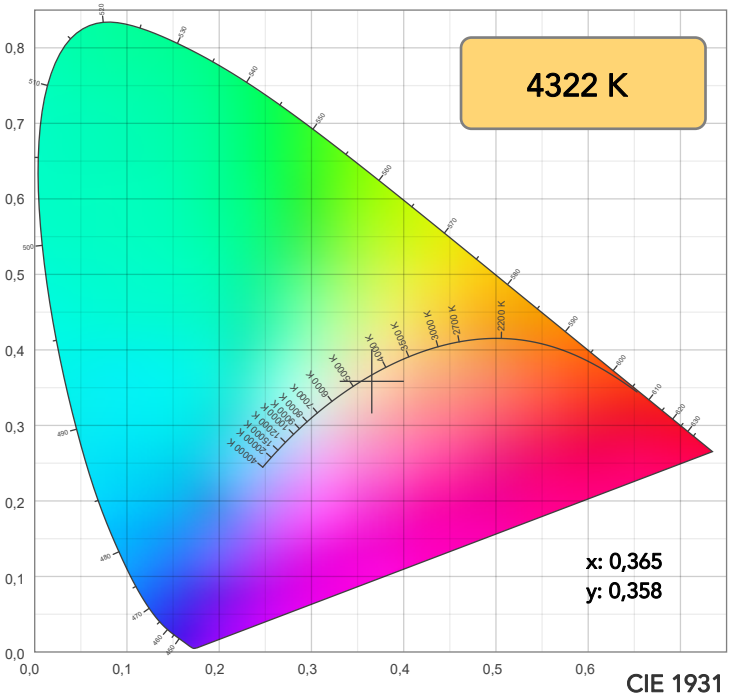


Beam angle 50%: 15,1°
Field angle 10%: 26,2°
Cut off angle 2.5%: 39,7°

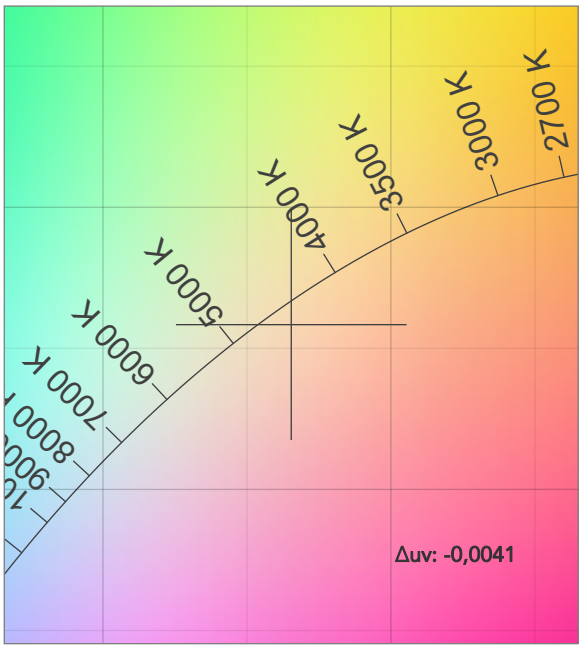
Spectra



COLOR DETAILS

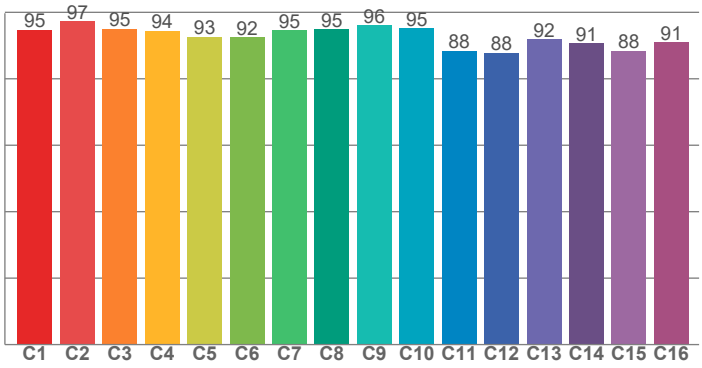


CIE 1931

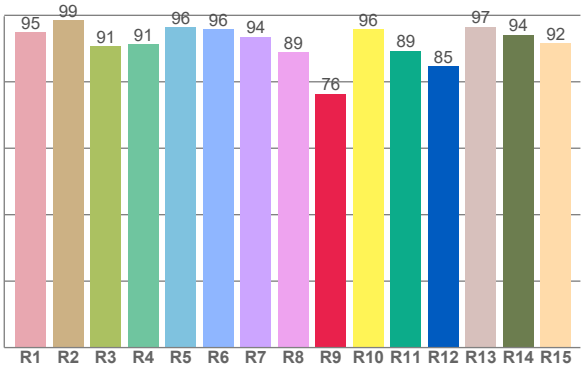


CIE 1931 ZOOM

TM30: 93,1



CRI: 93,8 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95,0	98,6	90,7	91,3	96,4	95,8	93,6	88,8	76,4	95,8	89,4	84,6	96,5	94,1	91,7

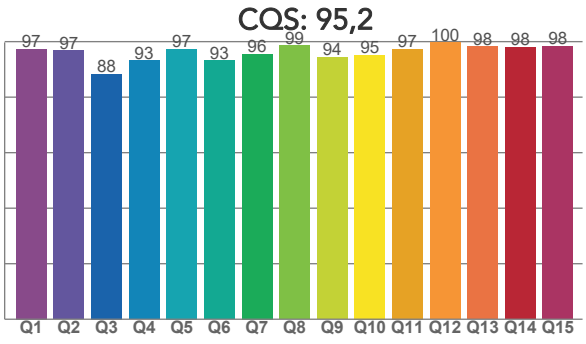
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,7	97,3	94,9	94,4	92,6	92,4	94,6	94,9	96,0	95,2	88,3	87,8	91,9	90,6	88,4	90,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,4	96,8	88,3	93,2	97,4	93,1	95,5	98,6	94,3	95,2	97,4	99,7	98,2	98,0	98,3

CQS: 95,2



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4322 K	93,8	76,4	93,1	105,8	95,2	97	0,365	0,358	-0,0041

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TM30 DETAILS

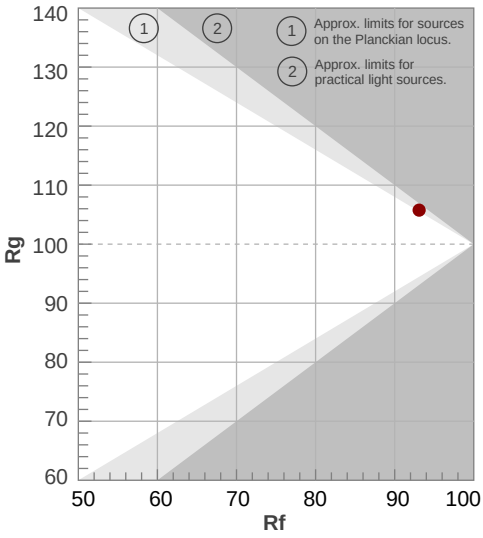
Rf 93,1

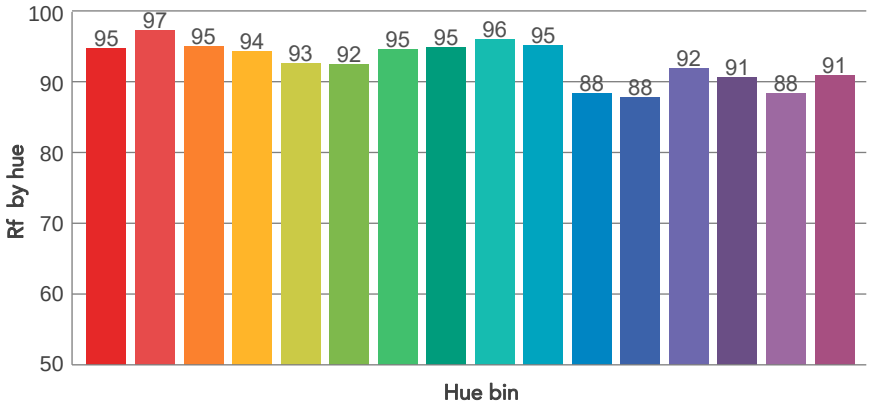
Fidelity index Rf

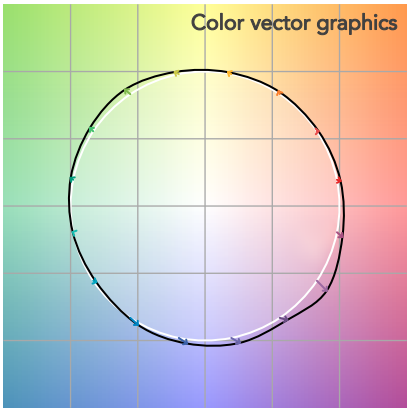
Rg 105,8

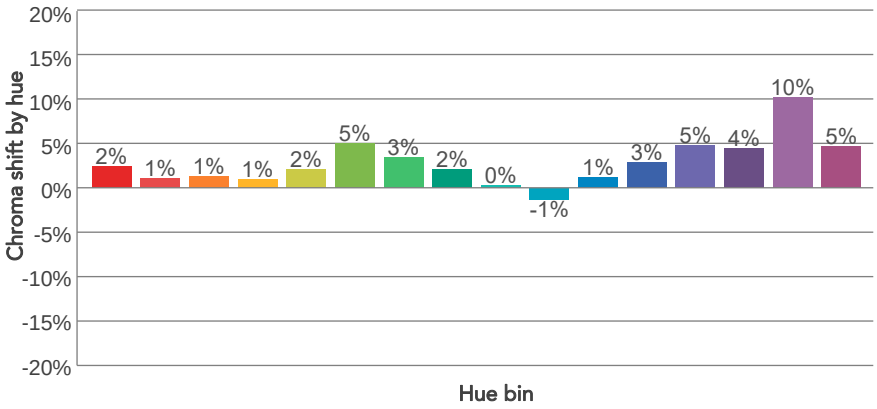
Gamut index

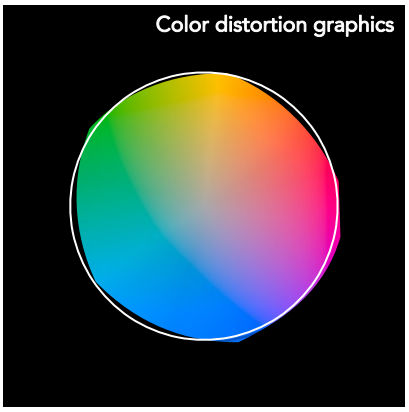
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	95	2%	-1%
2	97	1%	-1%
3	95	1%	2%
4	94	1%	3%
5	93	2%	3%
6	92	5%	1%
7	95	3%	-1%
8	95	2%	-1%
9	96	0%	0%
10	95	-1%	2%
11	88	1%	8%
12	88	3%	7%
13	92	5%	6%
14	91	4%	4%
15	88	10%	-2%
16	91	5%	-3%

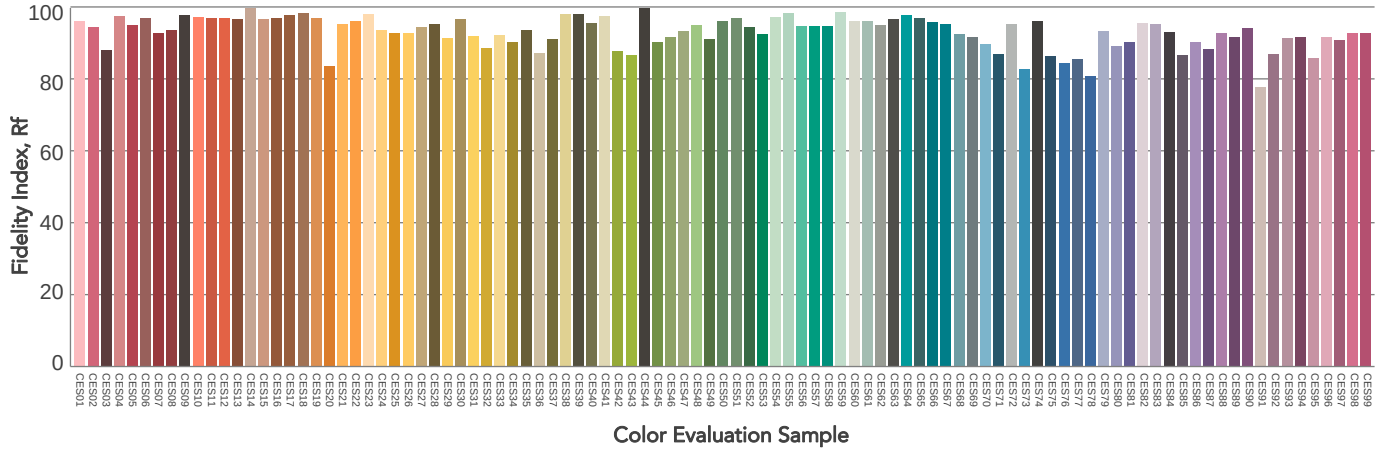












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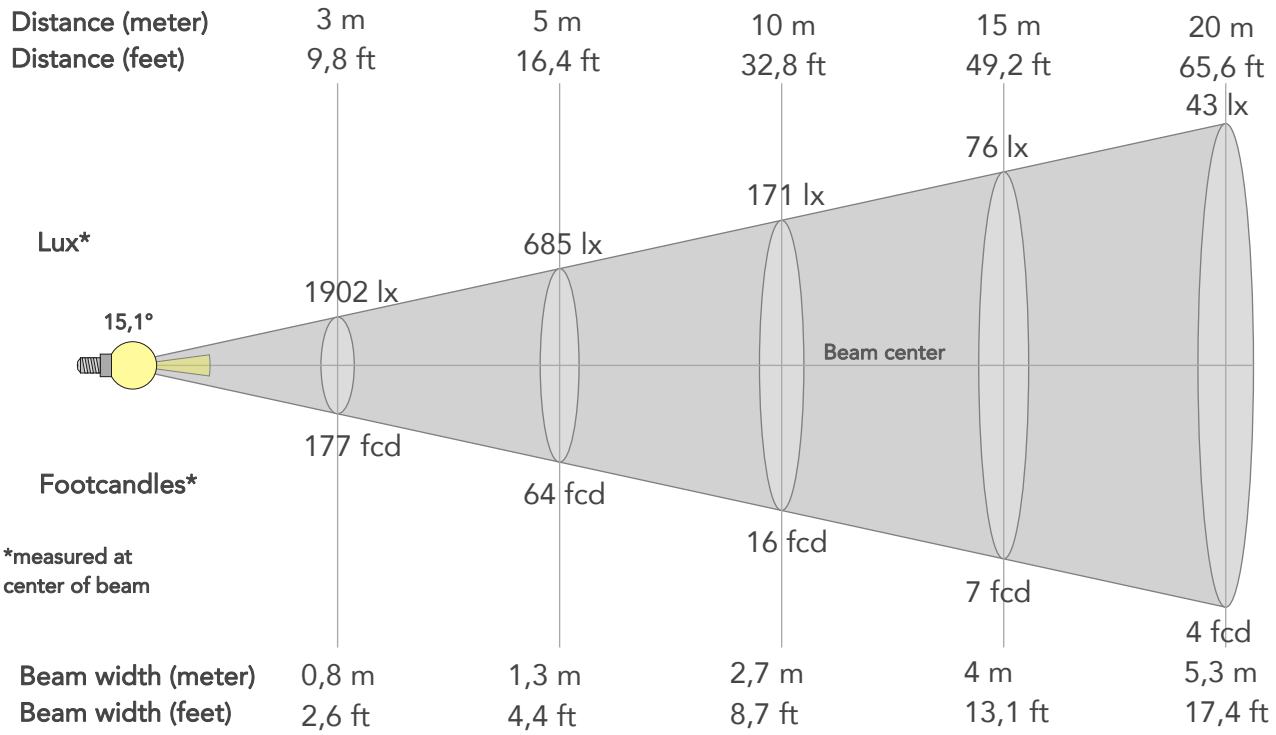
BEAM DETAILS

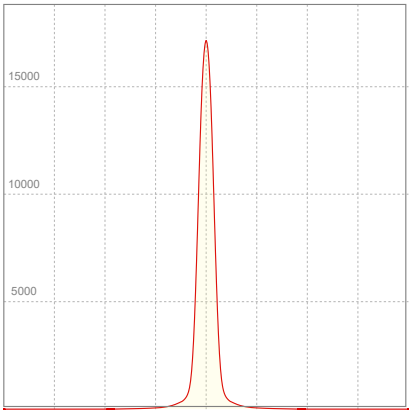
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,1°	26,2°	39,7°	97,4%	94,3%



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	17116lx	4279lx	1902lx	1070lx	685lx	304lx	171lx	76lx	43lx	27lx	19lx	11lx	7lx
Footcand.	1590fcd	398fcd	177fcd	99fcd	64fcd	28fcd	16fcd	7fcd	4fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,3m	2m	2,7m	4m	5,3m	6,6m	8m	10,6m	13,3m
Beam wid.	0,9ft	1,8ft	2,6ft	3,5ft	4,4ft	6,5ft	8,7ft	13,1ft	17,4ft	21,8ft	26,1ft	34,9ft	43,6ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,145A	31,5W	0,96	52lm/W

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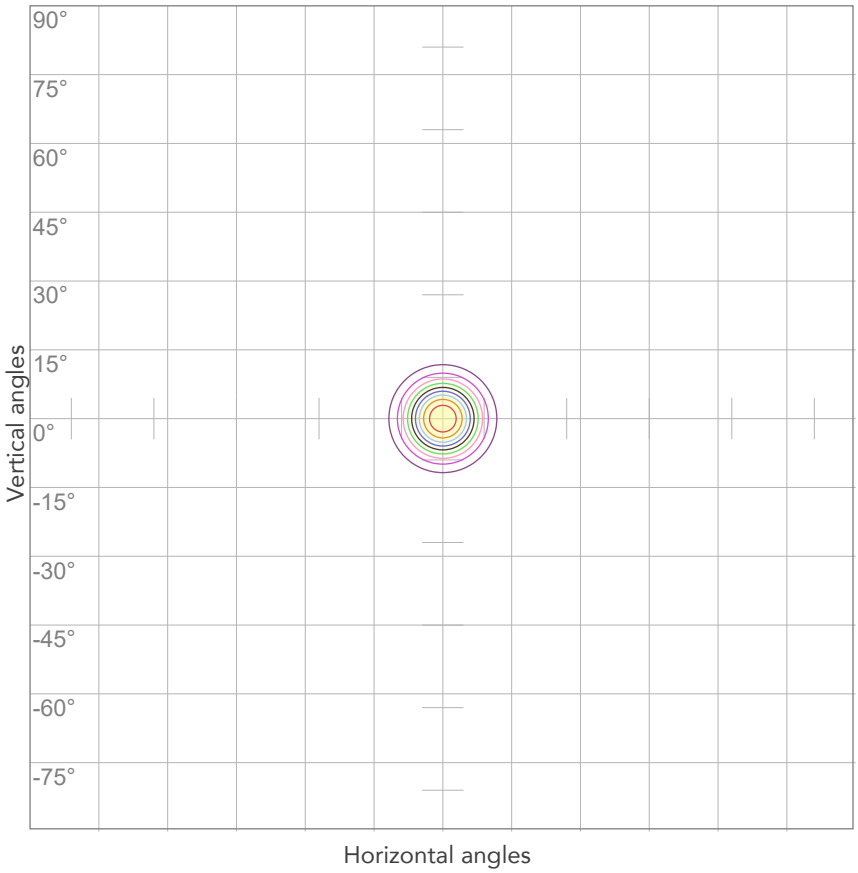
ISO DIAGRAMS

ISO CANDELA DIAGRAM



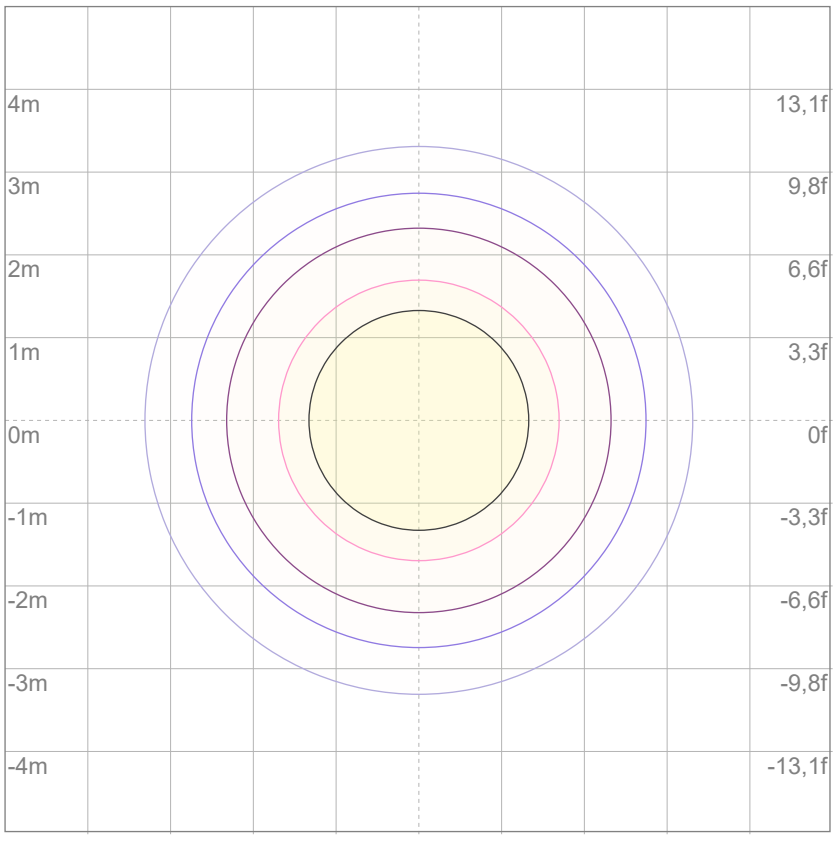
10%	1712 cd
20%	3423 cd
30%	5135 cd
40%	6846 cd
50%	8558 cd
60%	10270 cd
70%	11981 cd
80%	13693 cd

Conditions:

Number of c-planes: 2

Candela at center: 17116 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	5,13 lx
5%	8,56 lx
10%	17,1 lx
30%	51,3 lx
50%	85,6 lx

Conditions:

Number of c-planes: 2

Lux at center: 171 lx

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

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Total lumen output:

1138 lm

Peak candela output:

11924 cd

Light quality:

CRI: 96,6

Color temperature:

2634 K

PRODUCT NAME:

ARCSPOTS VW

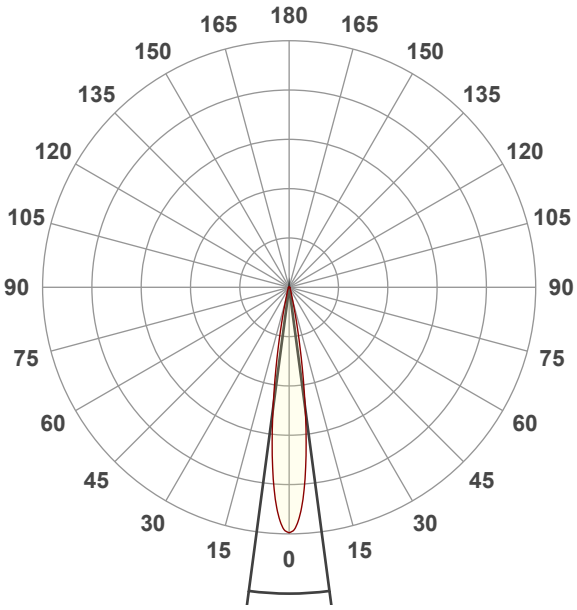
MEASURAMENT CONDITIONS:

Beam angle:
15°

Target:
Warm White

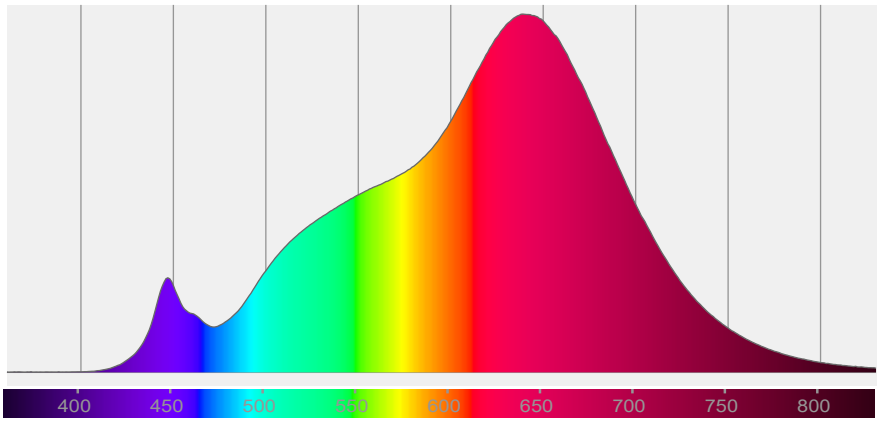
Operator:
Salvatore Giglio

Date and time:
20/02/2024 12:22:30

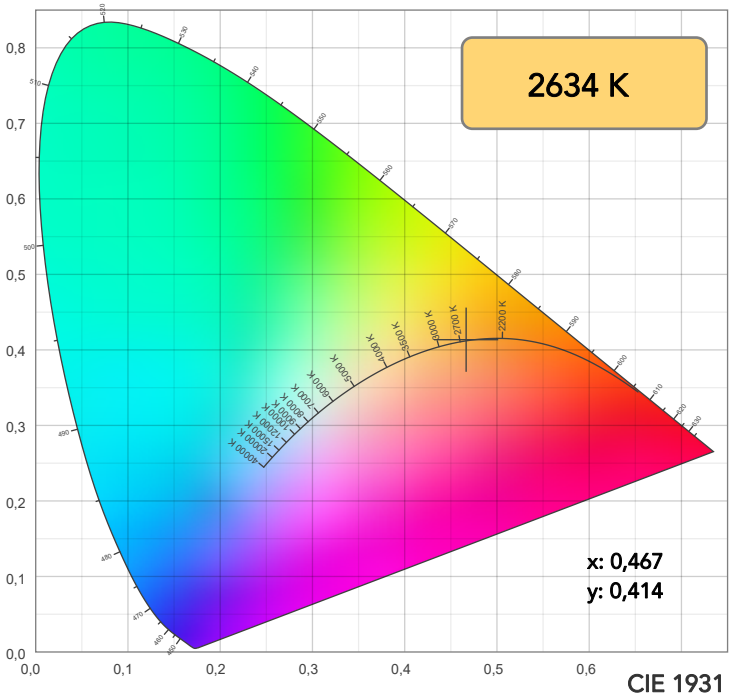


Beam angle 50%: 15,1°
Field angle 10%: 26,1°
Cut off angle 2.5%: 39,7°

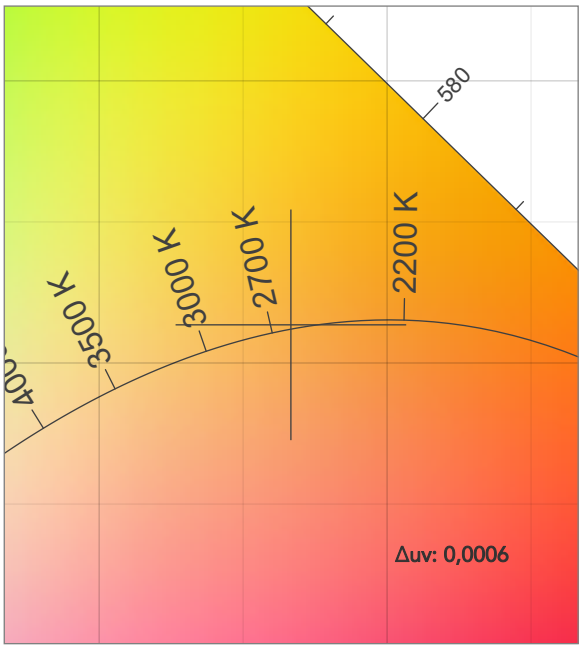
Spectra



COLOR DETAILS

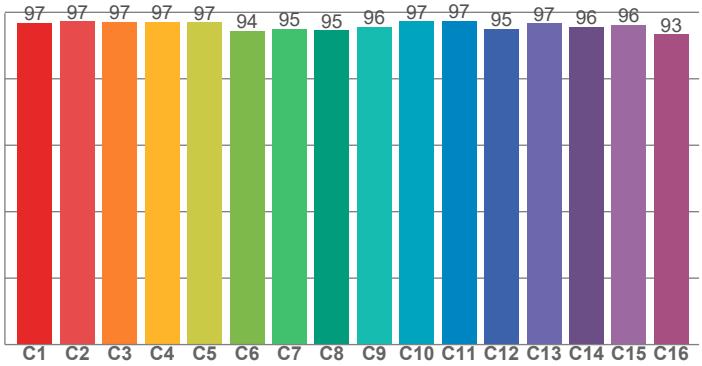


CIE 1931

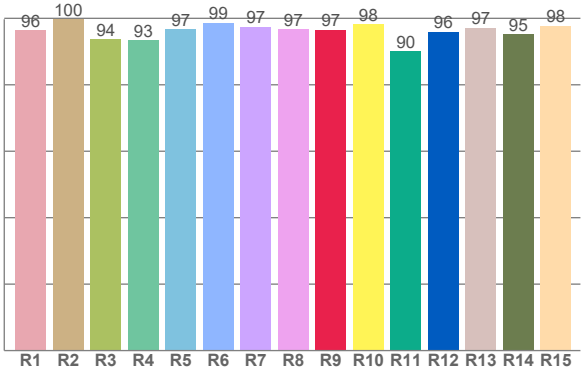


CIE 1931 ZOOM

TM30: 96,2



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
96,4	99,8	93,7	93,4	96,6	98,6	97,5	96,6	96,6	98,2	90,1	95,9	97,2	95,3	97,8

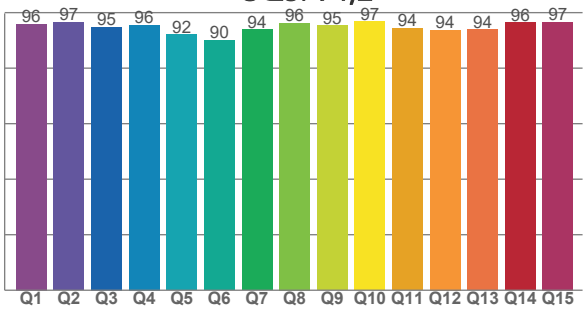
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,9	96,5	94,9	95,5	92,1	90,0	93,9	96,2	95,4	96,7	94,3	93,7	93,9	96,4	96,7

CQS: 94,2



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2634 K	96,6	96,6	96,2	103,1	94,2	98	0,467	0,414	0,0006

TM30 DETAILS

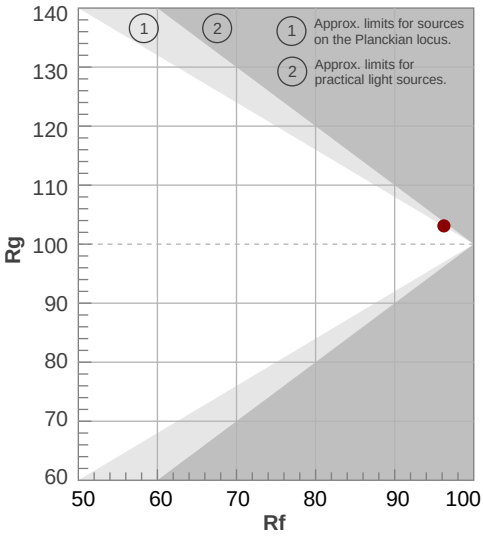
Rf 96,2

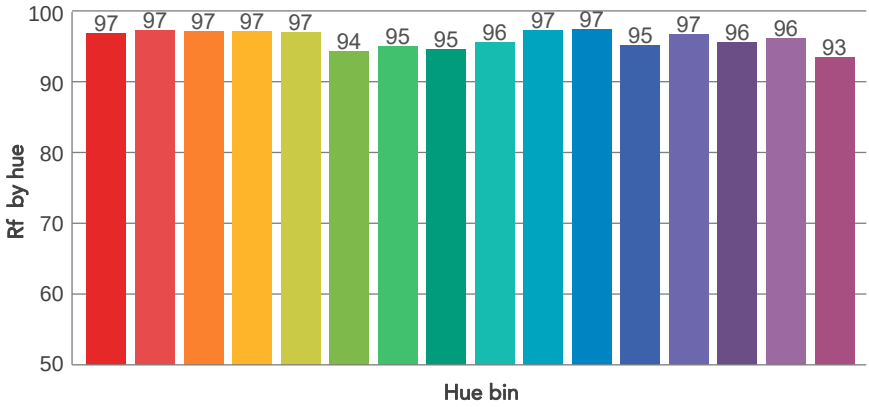
Fidelity index Rf

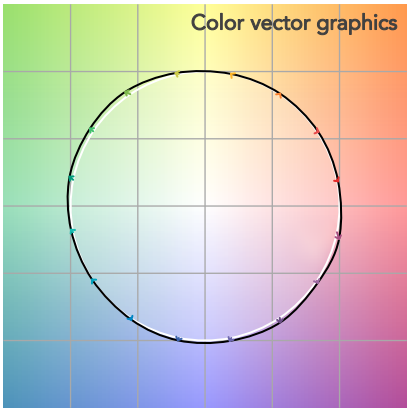
Rg 103,1

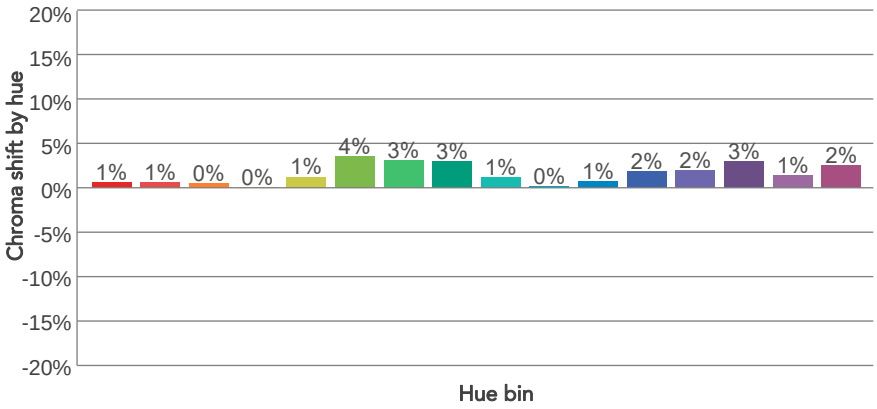
Gammut index

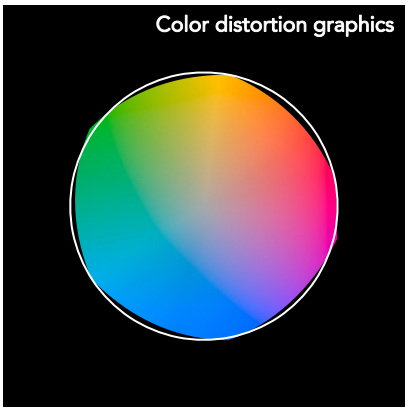
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	97	1%	-1%
2	97	1%	-1%
3	97	0%	0%
4	97	0%	0%
5	97	1%	2%
6	94	4%	2%
7	95	3%	0%
8	95	3%	-2%
9	96	1%	-2%
10	97	0%	-1%
11	97	1%	1%
12	95	2%	0%
13	97	2%	-2%
14	96	3%	-2%
15	96	1%	-1%
16	93	2%	-5%

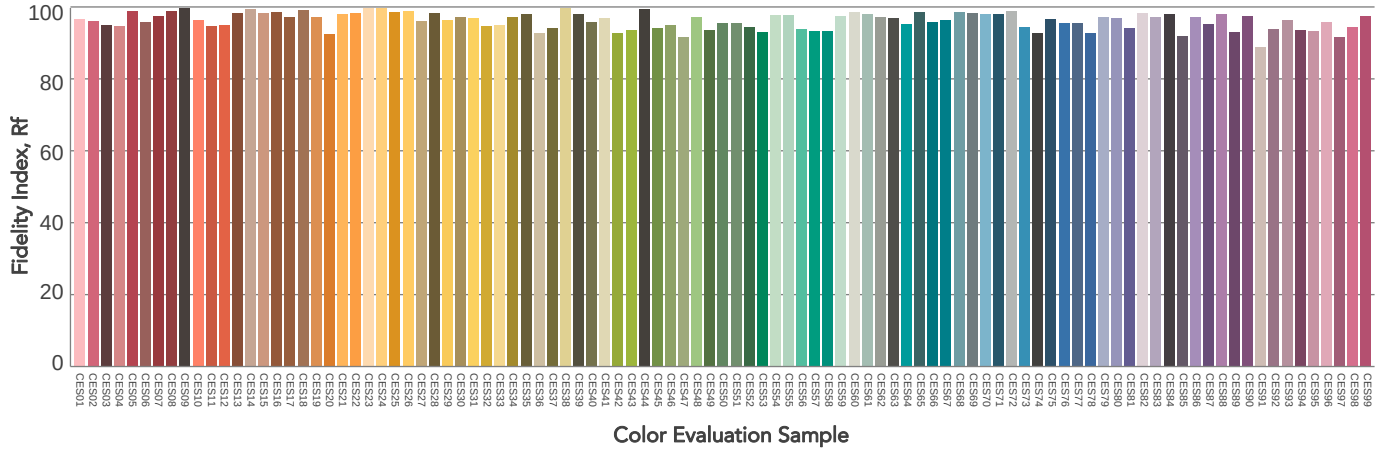












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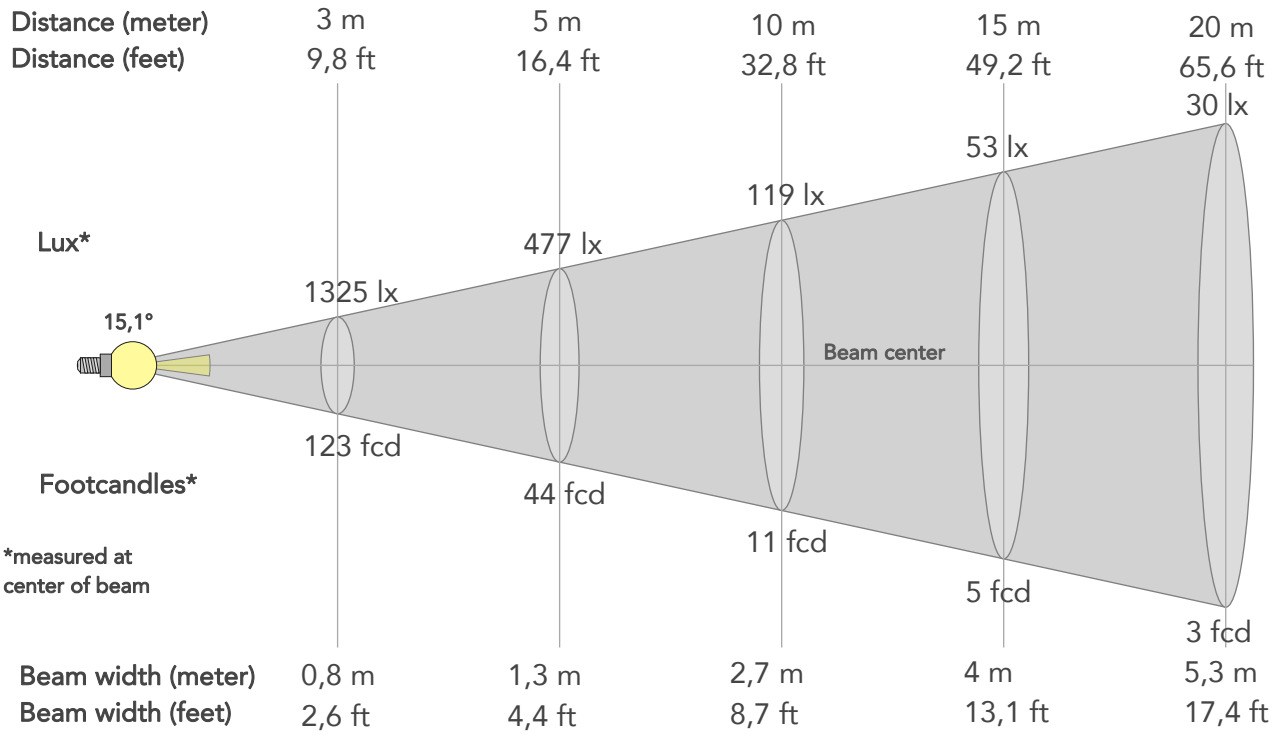
BEAM DETAILS

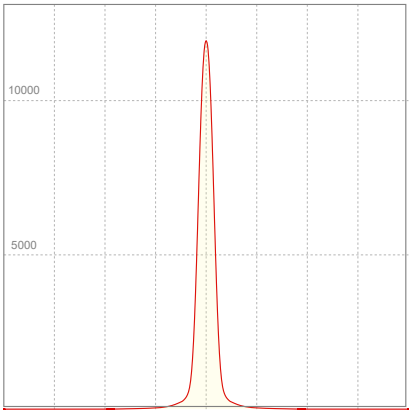
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,1°	26,1°	39,7°	97,2%	94,1%



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	11924lx	2981lx	1325lx	745lx	477lx	212lx	119lx	53lx	30lx	19lx	13lx	7lx	5lx
Footcand.	1108fcd	277fcd	123fcd	69fcd	44fcd	20fcd	11fcd	5fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,3m	2m	2,7m	4m	5,3m	6,6m	8m	10,6m	13,3m
Beam wid.	0,9ft	1,8ft	2,6ft	3,5ft	4,4ft	6,5ft	8,7ft	13,1ft	17,4ft	21,8ft	26,1ft	34,8ft	43,5ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,125A	26,5W	0,93	43lm/W

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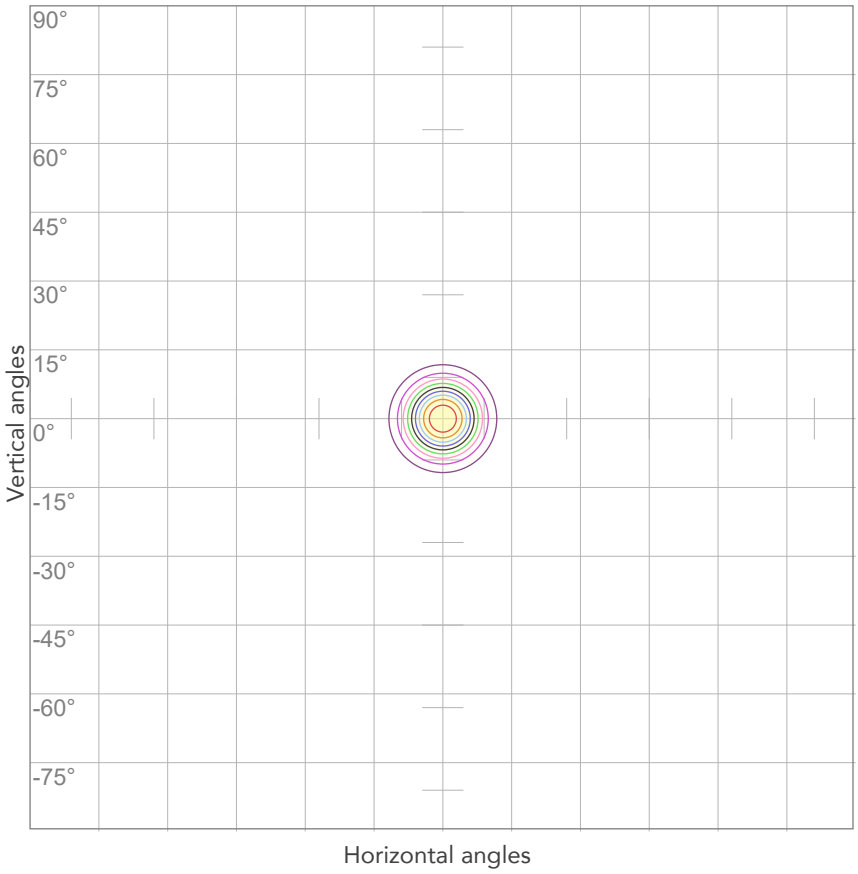
ISO DIAGRAMS

ISO CANDELA DIAGRAM



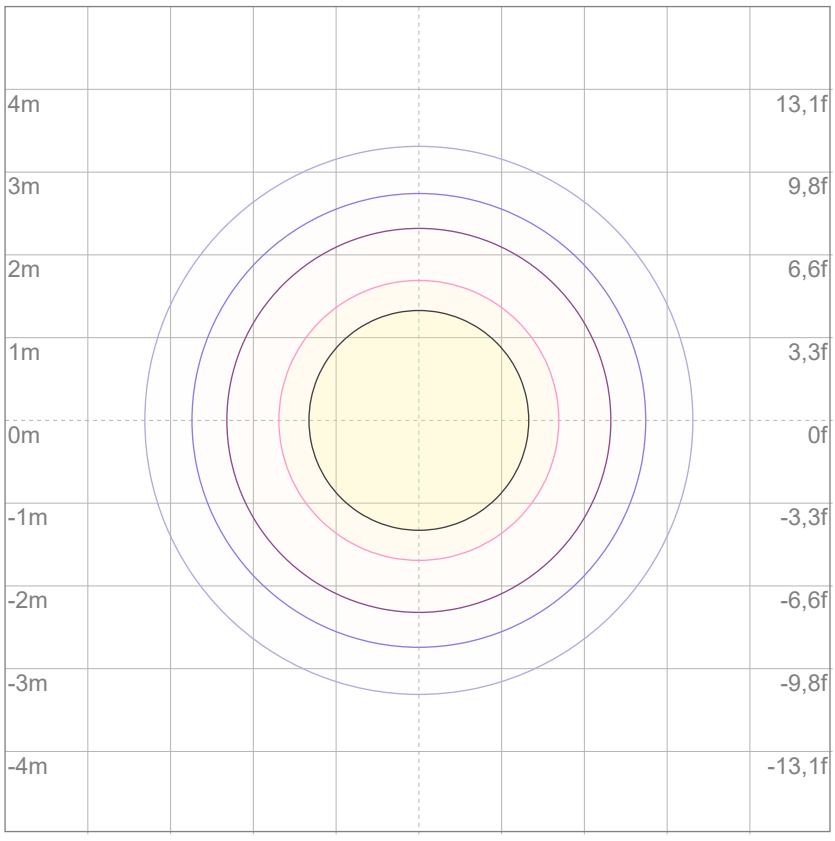
10%	1192 cd
20%	2385 cd
30%	3577 cd
40%	4770 cd
50%	5962 cd
60%	7154 cd
70%	8347 cd
80%	9539 cd

Conditions:

Number of c-planes: 2

Candela at center: 11924 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	3,58 lx
5%	5,96 lx
10%	11,9 lx
30%	35,8 lx
50%	59,6 lx

Conditions:

Number of c-planes: 2

Lux at center: 119 lx

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

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Total lumen output:

1612 lm

Peak candela output:

16899 cd

Light quality:

CRI: 92,9

Color temperature:

6783 K

PRODUCT NAME:

ARCSPOTS VW

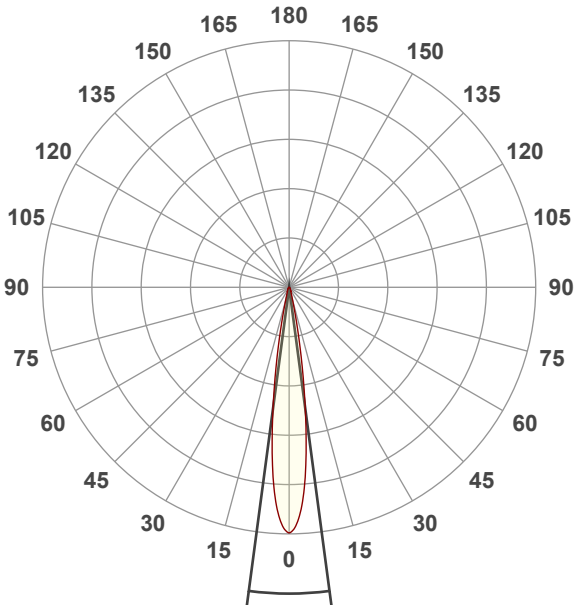
MEASURAMENT CONDITIONS:

Beam angle:
15°

Target:
Cold White

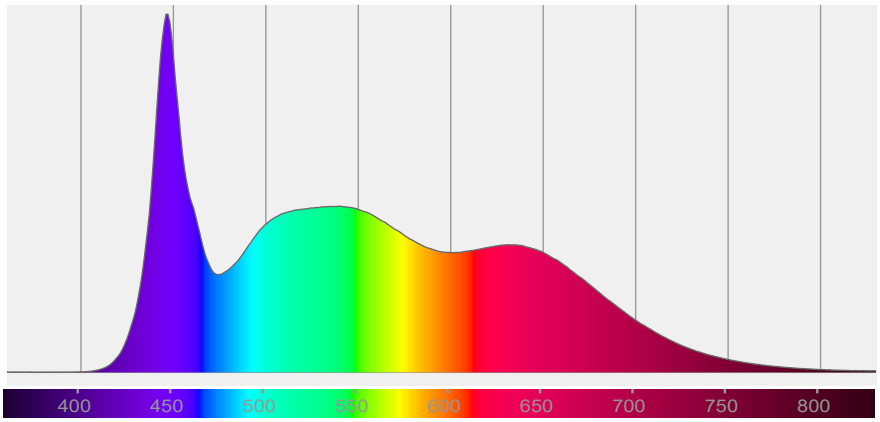
Operator:
Salvatore Giglio

Date and time:
20/02/2024 12:23:57

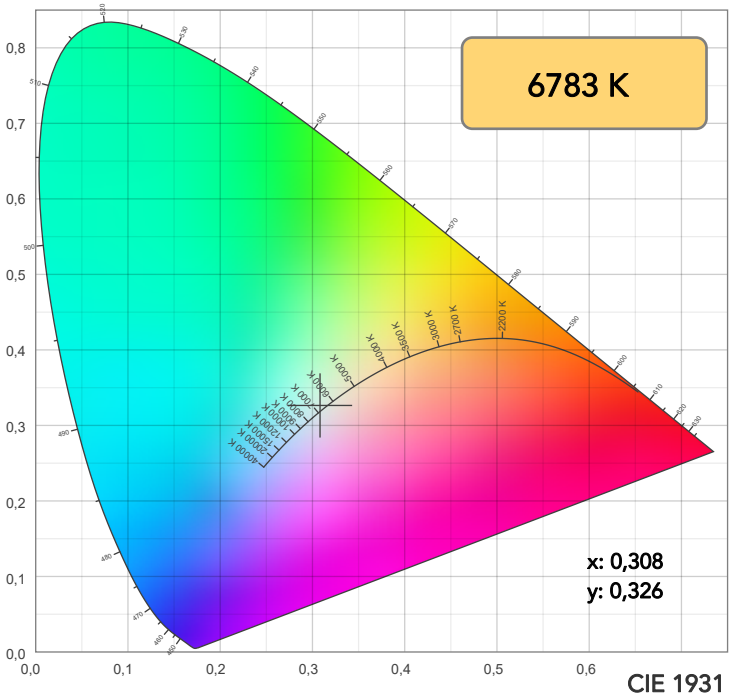


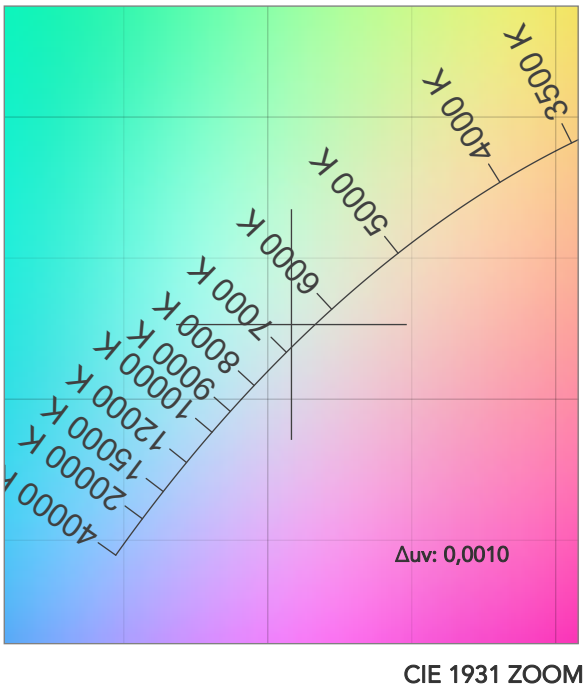
Beam angle 50%: 15,1°
Field angle 10%: 26,2°
Cut off angle 2.5%: 39,7°

Spectra

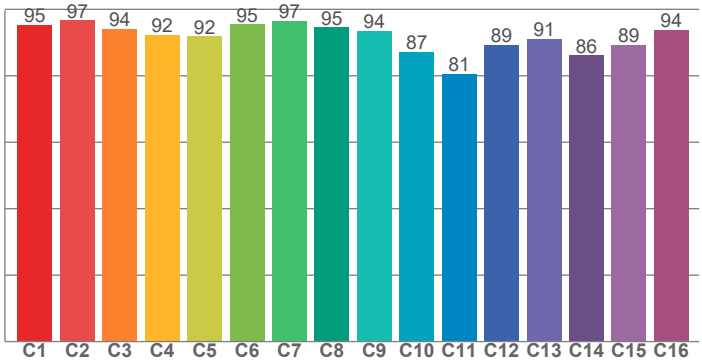


COLOR DETAILS

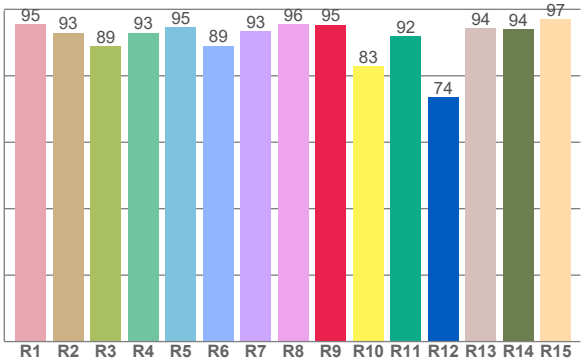




TM30: 92,0



CRI: 92,9 (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
95,5	92,9	89,0	93,0	94,6	89,1	93,4	95,6	95,4	82,8	91,8	73,6	94,4	94,0	97,0

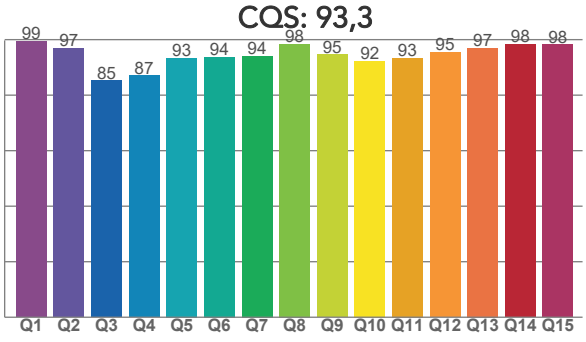
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,3	96,7	94,1	92,3	91,9	95,4	96,6	94,6	93,6	87,2	80,5	89,4	91,2	86,1	89,3	93,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
99,4	96,9	85,3	87,1	93,4	93,8	94,1	98,5	94,6	92,3	93,3	95,4	96,9	98,3	98,3

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
6783 K	92,9	95,4	92,0	102,2	93,3	98	0,308	0,326	0,0010

TM30 DETAILS

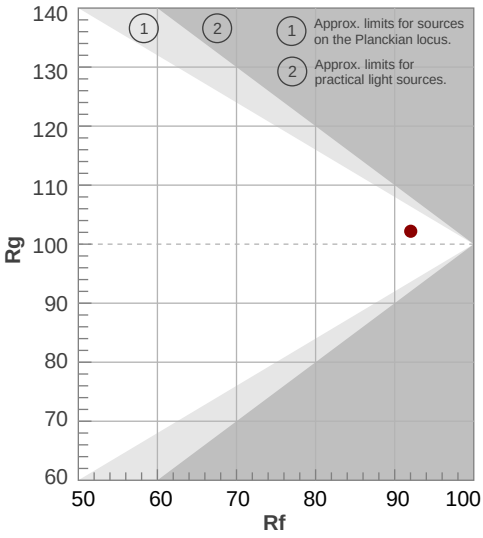
Rf 92,0

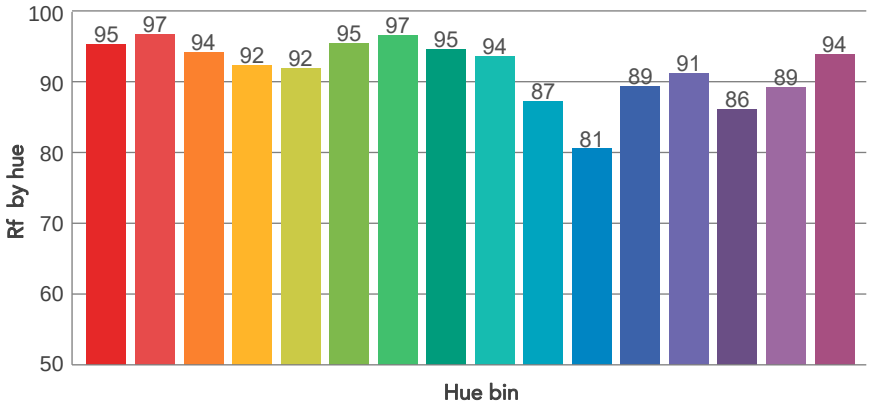
Fidelity index Rf

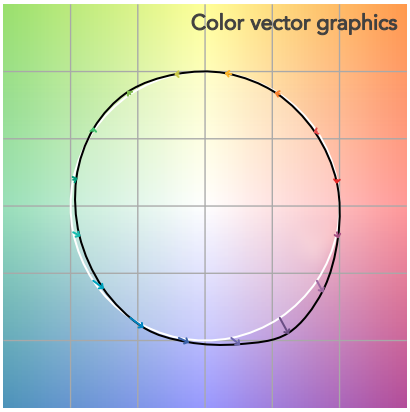
Rg 102,2

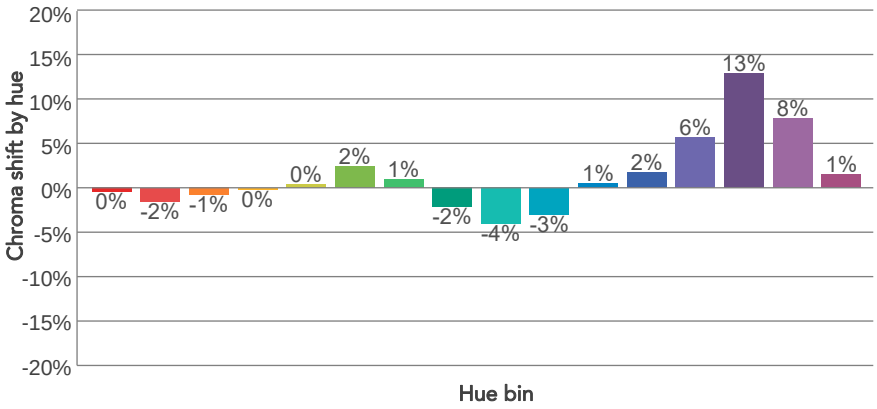
Gammut index

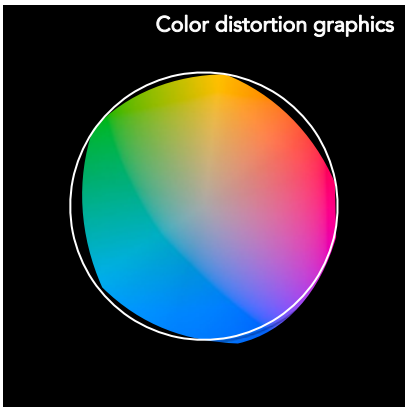
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	95	0%	-2%
2	97	-2%	0%
3	94	-1%	3%
4	92	0%	4%
5	92	0%	2%
6	95	2%	0%
7	97	1%	-2%
8	95	-2%	-1%
9	94	-4%	3%
10	87	-3%	8%
11	81	1%	11%
12	89	2%	7%
13	91	6%	5%
14	86	13%	-1%
15	89	8%	-4%
16	94	1%	-3%

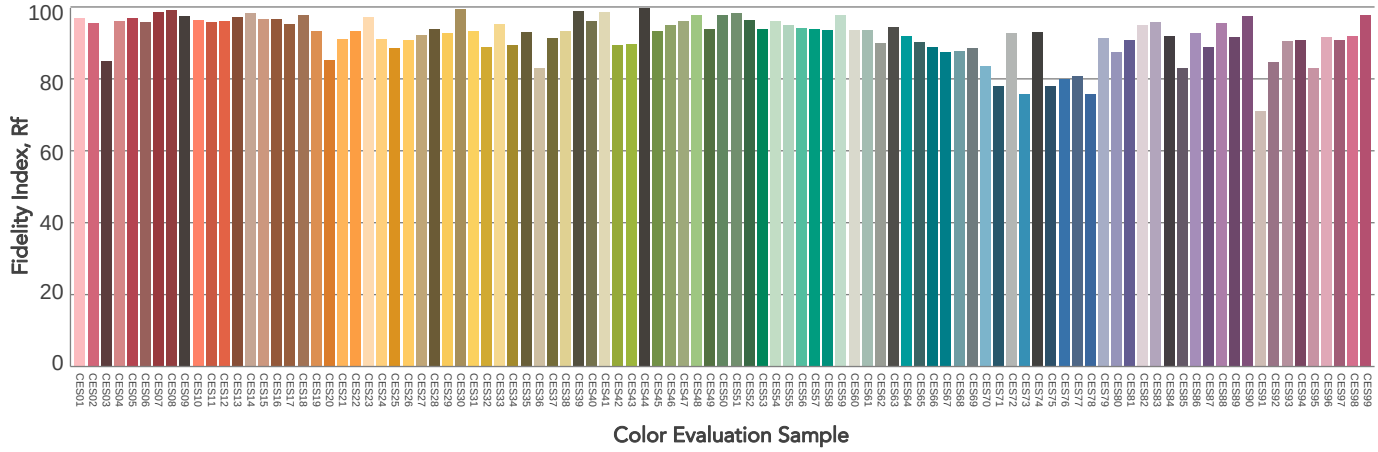












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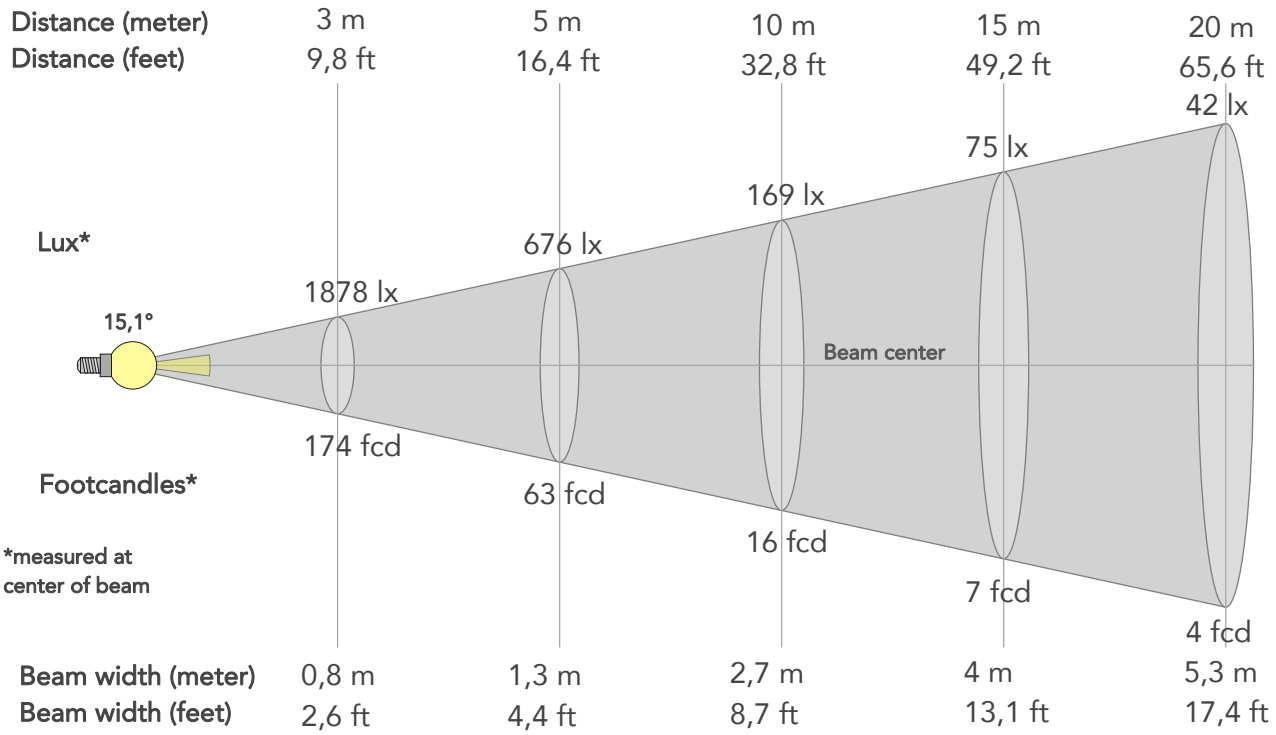
BEAM DETAILS

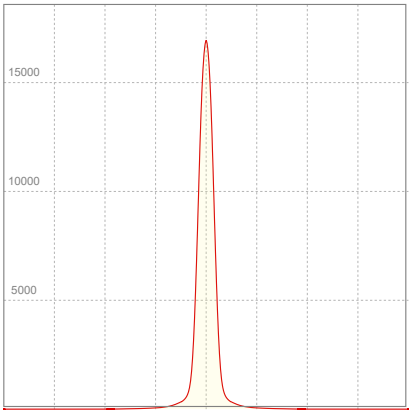
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,1°	26,2°	39,7°	97,3%	94,2%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	16899lx	4225lx	1878lx	1056lx	676lx	300lx	169lx	75lx	42lx	27lx	19lx	11lx	7lx
Footcand.	1570fcd	392fcd	174fcd	98fcd	63fcd	28fcd	16fcd	7fcd	4fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,3m	2m	2,7m	4m	5,3m	6,6m	8m	10,6m	13,3m
Beam wid.	0,9ft	1,8ft	2,6ft	3,5ft	4,4ft	6,5ft	8,7ft	13,1ft	17,4ft	21,8ft	26,2ft	34,9ft	43,6ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,123A	26,2W	0,93	62lm/W

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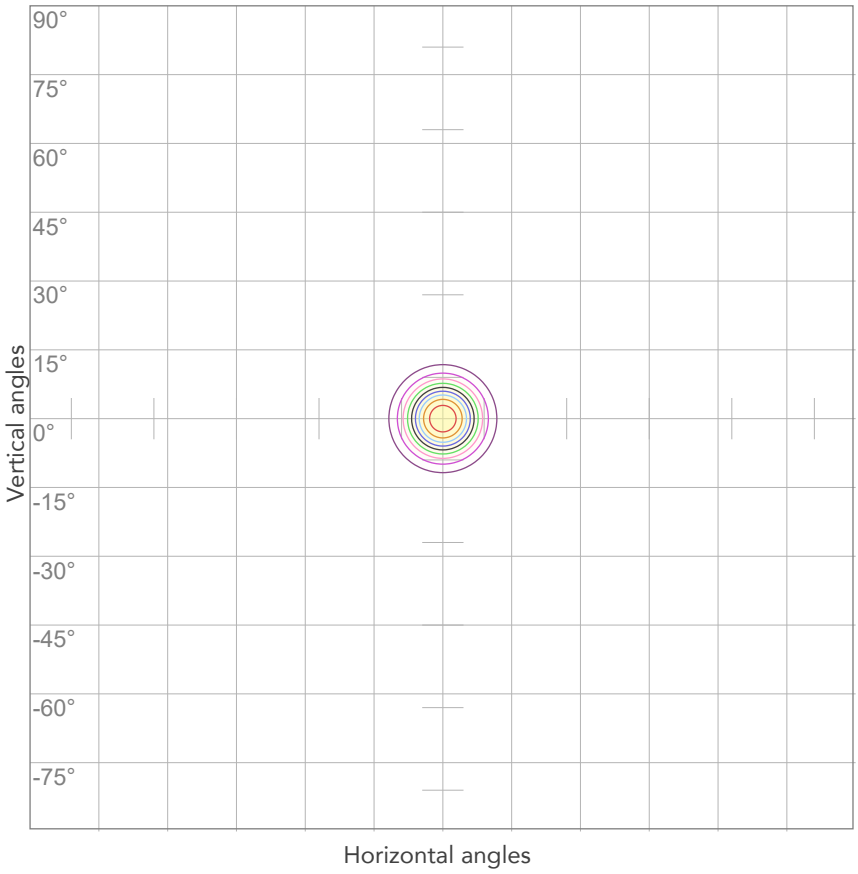
ISO DIAGRAMS

ISO CANDELA DIAGRAM



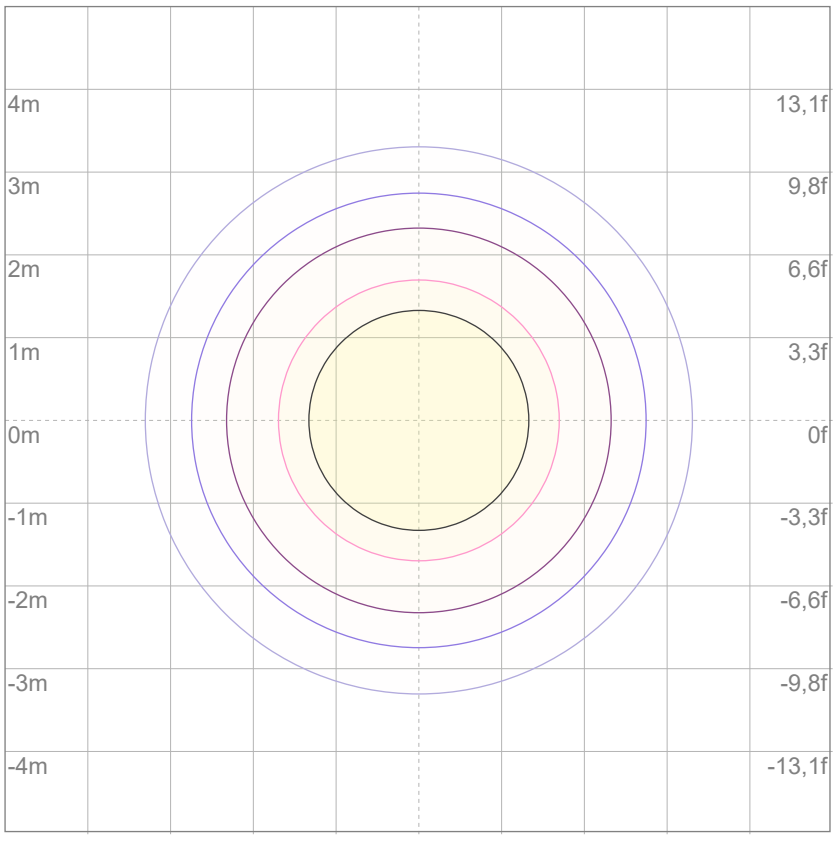
10%	1690 cd
20%	3380 cd
30%	5070 cd
40%	6760 cd
50%	8450 cd
60%	10139 cd
70%	11829 cd
80%	13519 cd

Conditions:

Number of c-planes: 2

Candela at center: 16899 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	5,07 lx
5%	8,45 lx
10%	16,9 lx
30%	50,7 lx
50%	84,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 169 lx

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

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Total lumen output:

1214 lm

Peak candela output:

12733 cd

Light quality:

CRI: 95,9

Color temperature:

2752 K

PRODUCT NAME:

ARCSPOTS VW

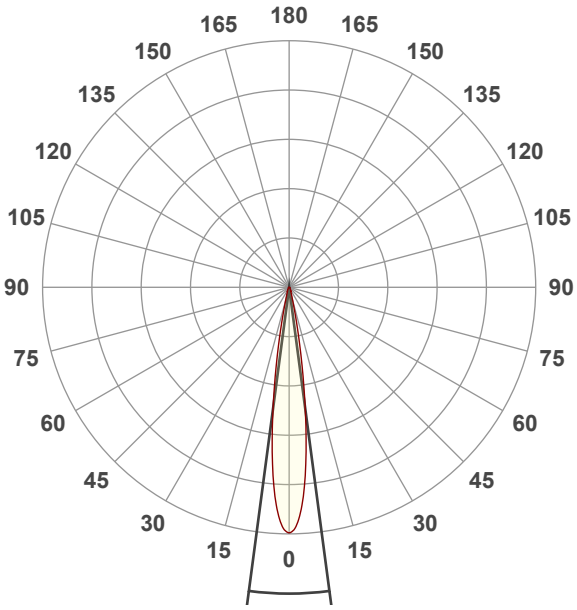
MEASURAMENT CONDITIONS:

Beam angle:
15°

Target:
2700K

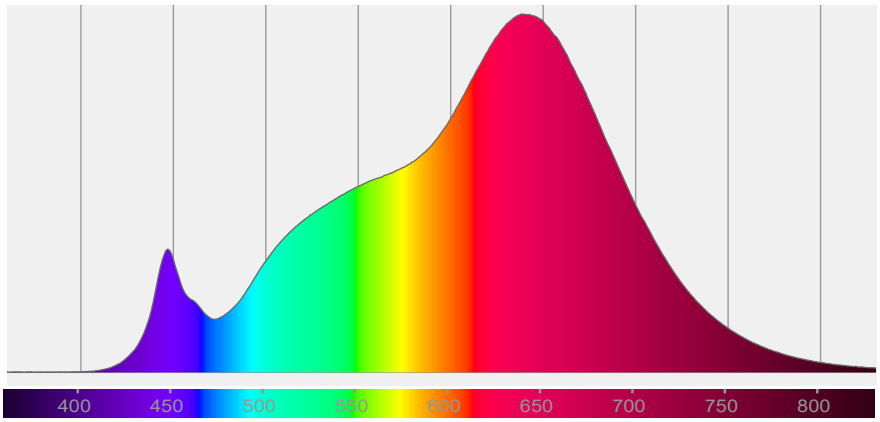
Operator:
Salvatore Giglio

Date and time:
20/02/2024 12:25:24

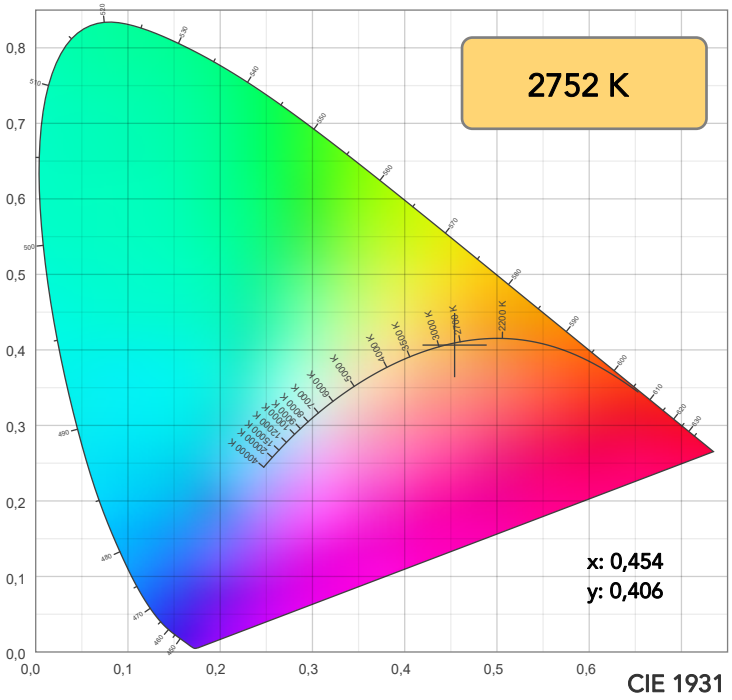


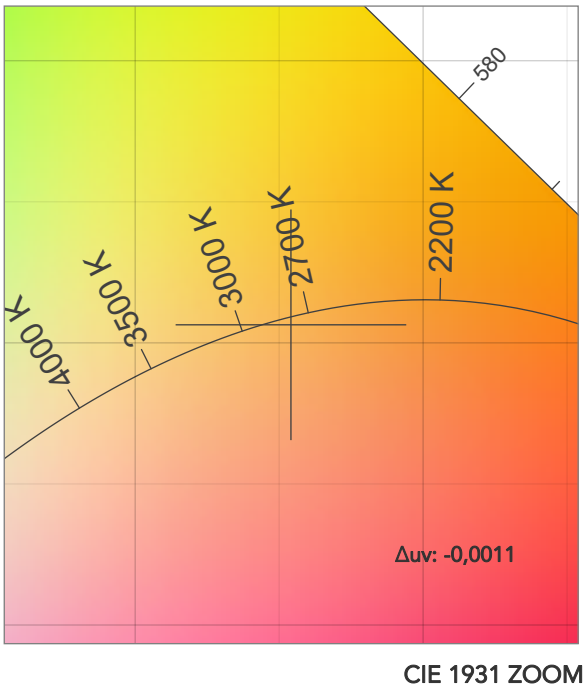
Beam angle 50%: 15,1°
Field angle 10%: 26,1°
Cut off angle 2.5%: 39,7°

Spectra

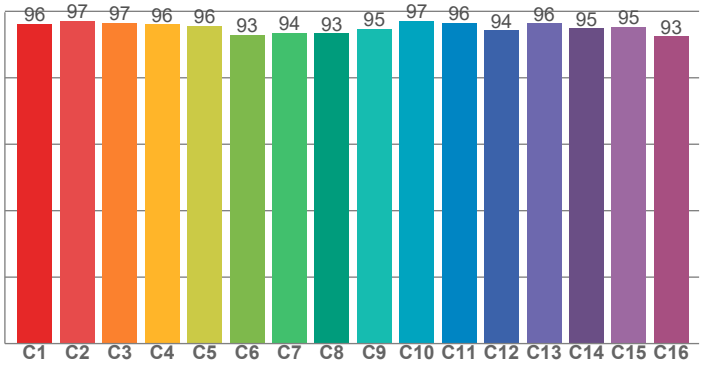


COLOR DETAILS

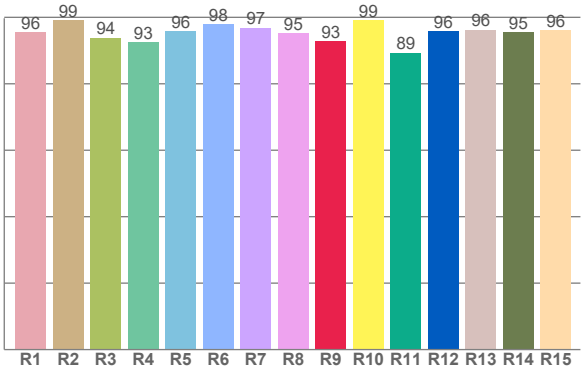




TM30: 95,4



CRI: 95,9 (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
95,6	99,2	93,9	92,5	95,8	97,8	96,9	95,1	92,8	99,1	89,3	95,9	96,3	95,5	96,1

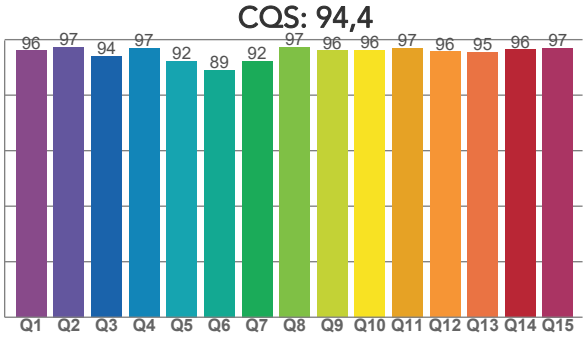
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,1	97,4	94,0	96,9	92,4	89,1	92,4	97,4	96,0	96,3	97,0	95,7	95,5	96,5	97,0

CQS: 94,4



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
2752 K	95,9	92,8	95,4	104,4	94,4	97	0,454	0,406	-0,0011

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TM30 DETAILS

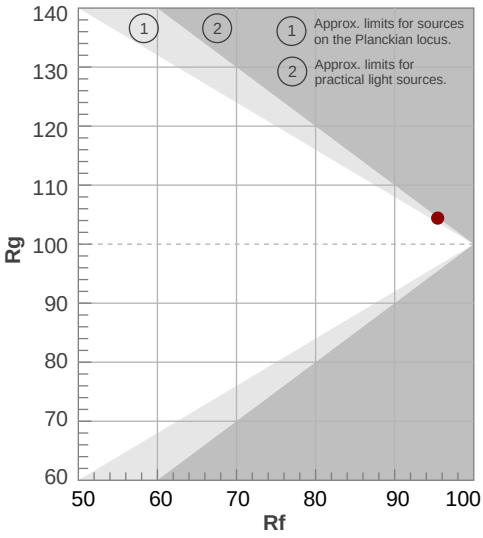
Rf 95,4

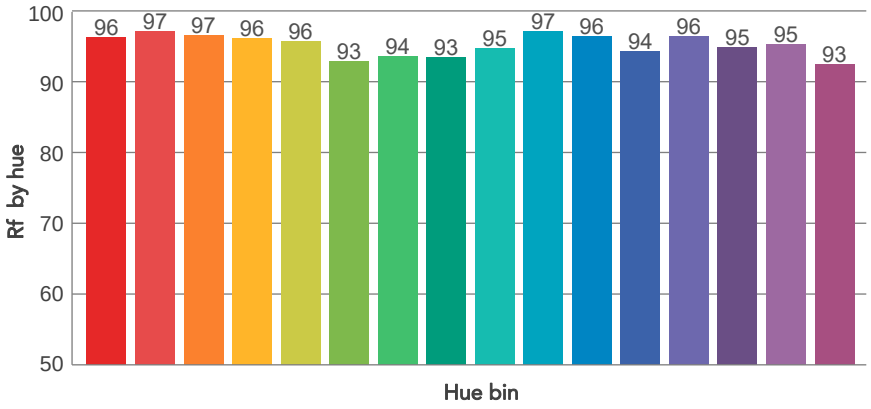
Fidelity index Rf

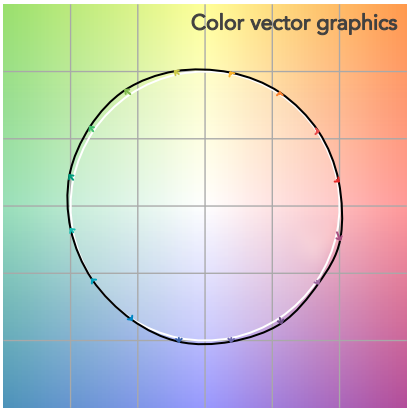
Rg 104,4

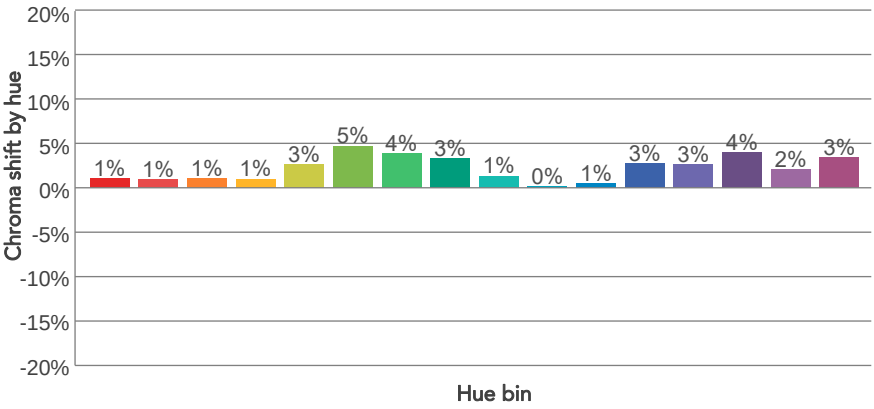
Gammut index

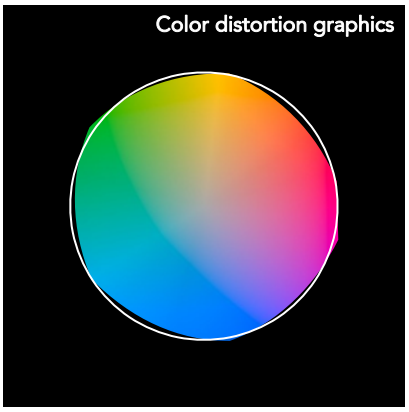
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	96	1%	-1%
2	97	1%	-1%
3	97	1%	1%
4	96	1%	1%
5	96	3%	2%
6	93	5%	1%
7	94	4%	-1%
8	93	3%	-3%
9	95	1%	-3%
10	97	0%	-1%
11	96	1%	2%
12	94	3%	1%
13	96	3%	-1%
14	95	4%	-1%
15	95	2%	-1%
16	93	3%	-5%

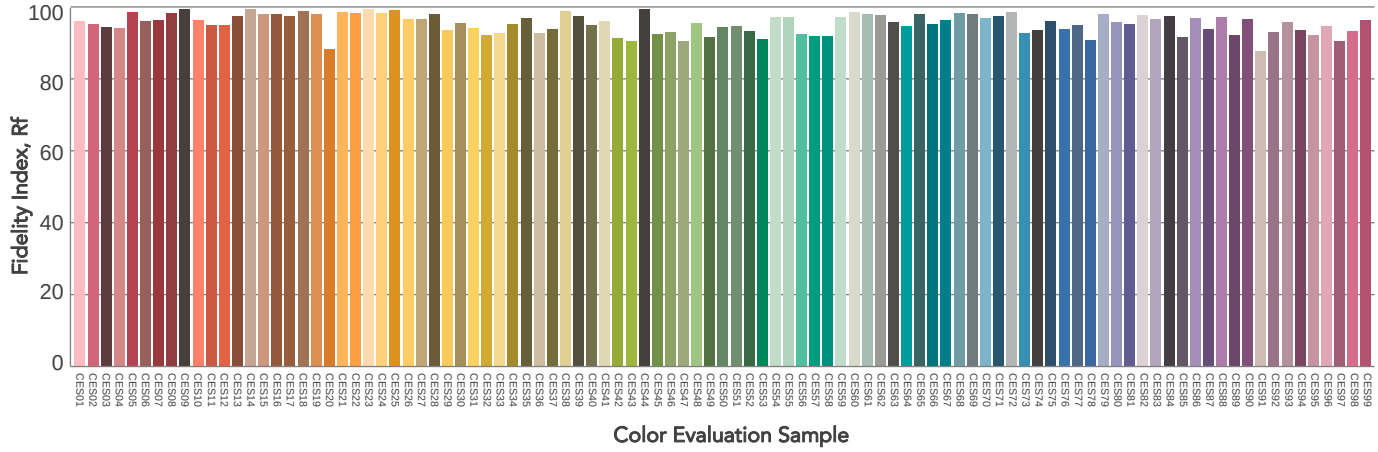












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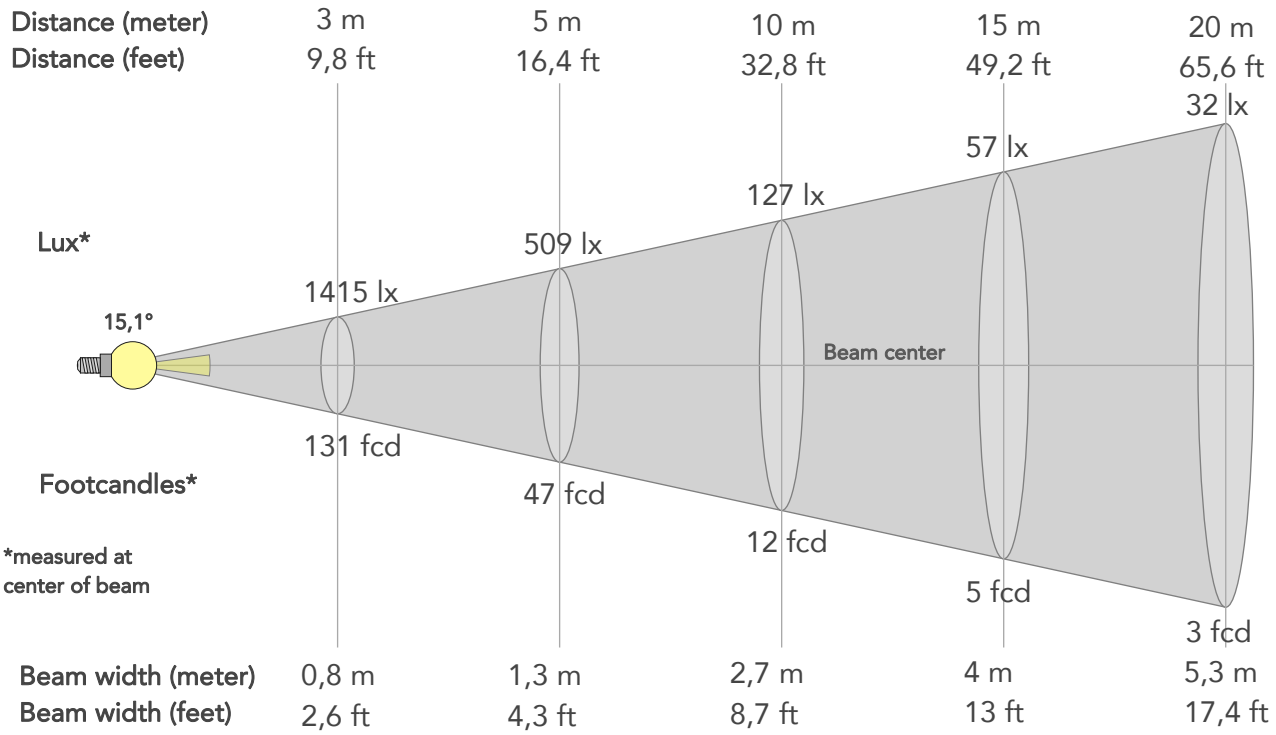
BEAM DETAILS

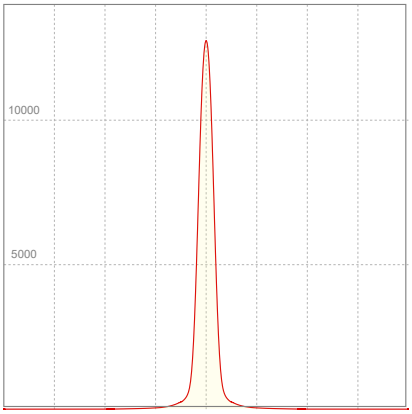
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,1°	26,1°	39,7°	97,1%	94,0%



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	12733lx	3183lx	1415lx	796lx	509lx	226lx	127lx	57lx	32lx	20lx	14lx	8lx	5lx
Footcand.	1183fcd	296fcd	131fcd	74fcd	47fcd	21fcd	12fcd	5fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,3m	2m	2,7m	4m	5,3m	6,6m	8m	10,6m	13,3m
Beam wid.	0,9ft	1,8ft	2,6ft	3,5ft	4,3ft	6,5ft	8,7ft	13ft	17,4ft	21,7ft	26,1ft	34,8ft	43,5ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,130A	28,0W	0,94	43lm/W

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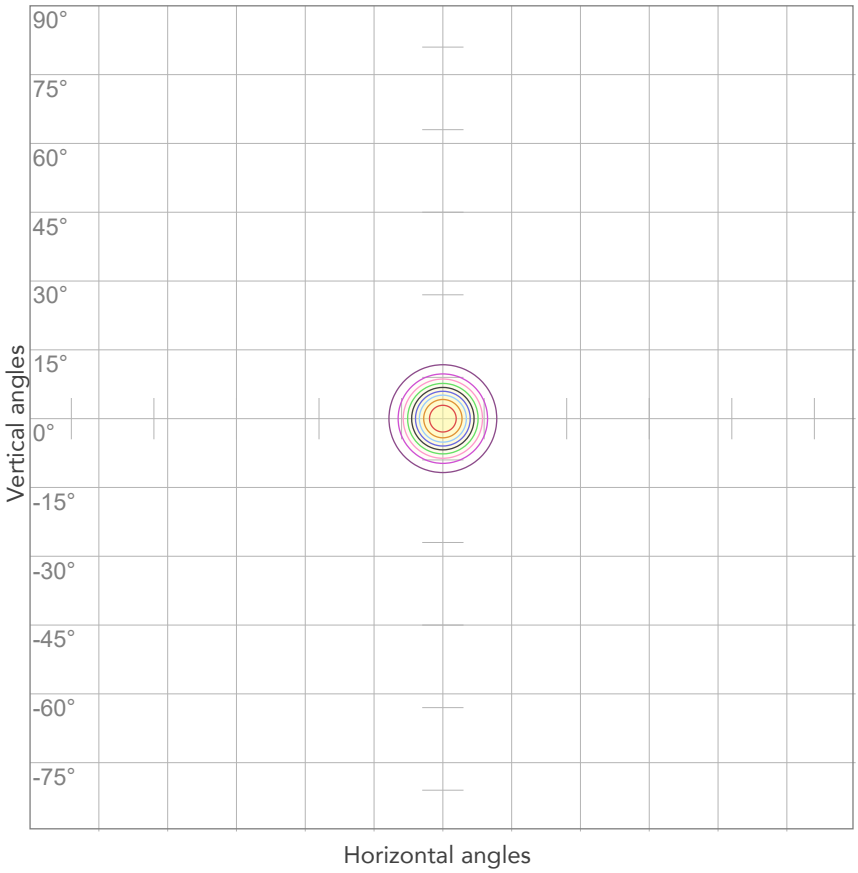
ISO DIAGRAMS

ISO CANDELA DIAGRAM



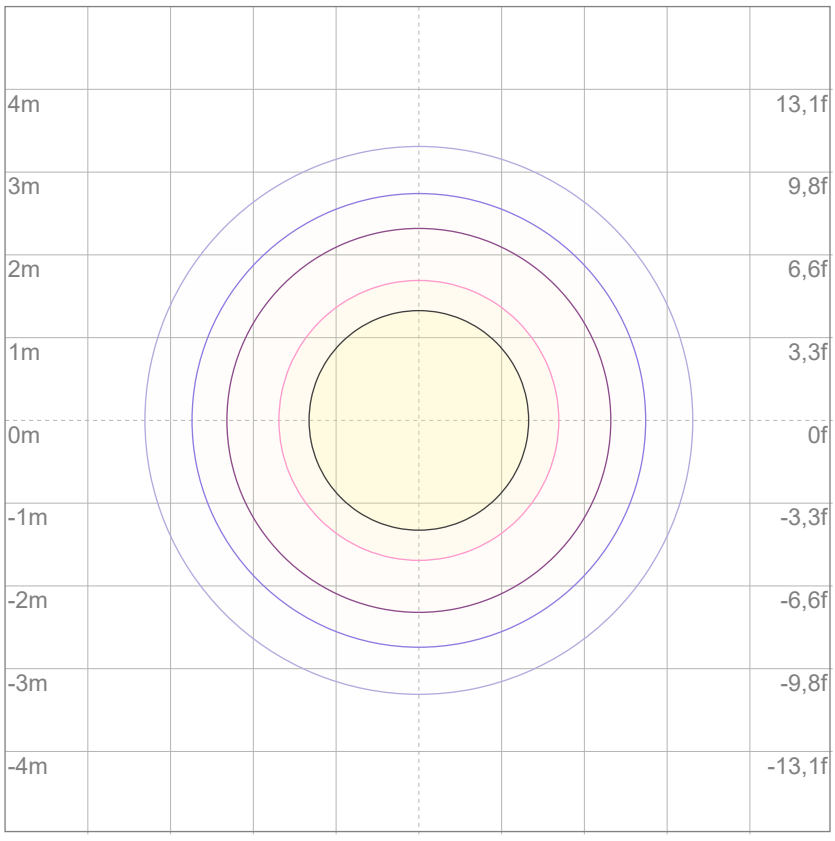
10%	1273 cd
20%	2547 cd
30%	3820 cd
40%	5093 cd
50%	6366 cd
60%	7640 cd
70%	8913 cd
80%	10186 cd

Conditions:

Number of c-planes: 2

Candela at center: 12733 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	3,82 lx
5%	6,37 lx
10%	12,7 lx
30%	38,2 lx
50%	63,7 lx

Conditions:

Number of c-planes: 2

Lux at center: 127 lx

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

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Total lumen output:

1469 lm

Peak candela output:

15415 cd

Light quality:

CRI: 94,1

Color temperature:

3271 K

PRODUCT NAME:

ARCSPOTS VW

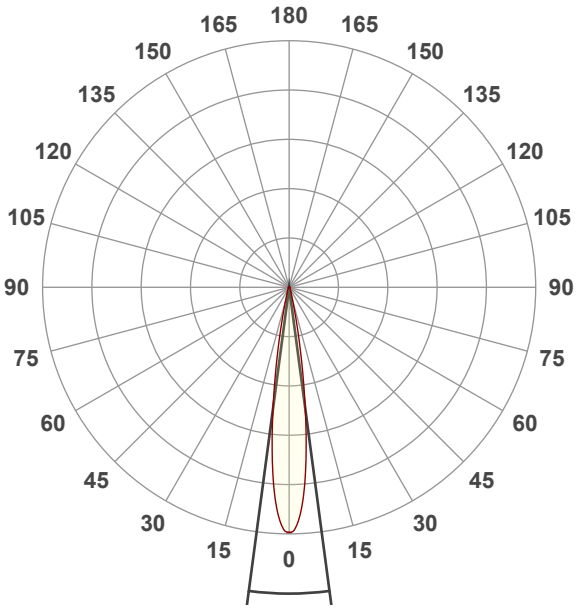
MEASURAMENT CONDITIONS:

Beam angle:
15°

Target:
3200K

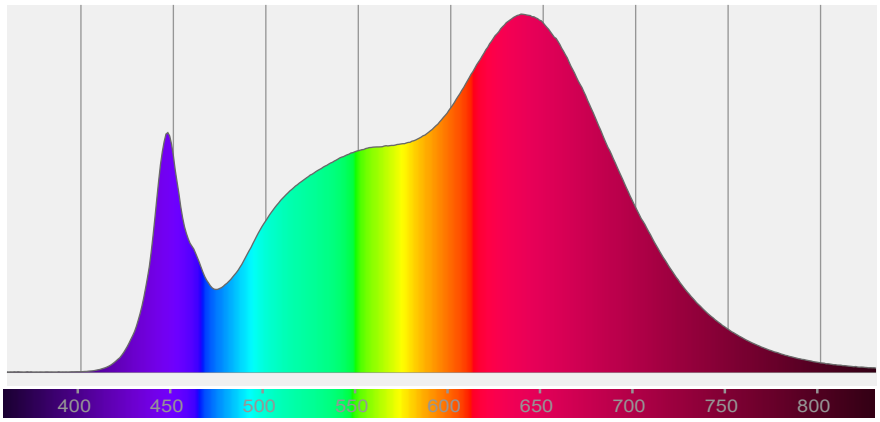
Operator:
Salvatore Giglio

Date and time:
20/02/2024 12:26:58

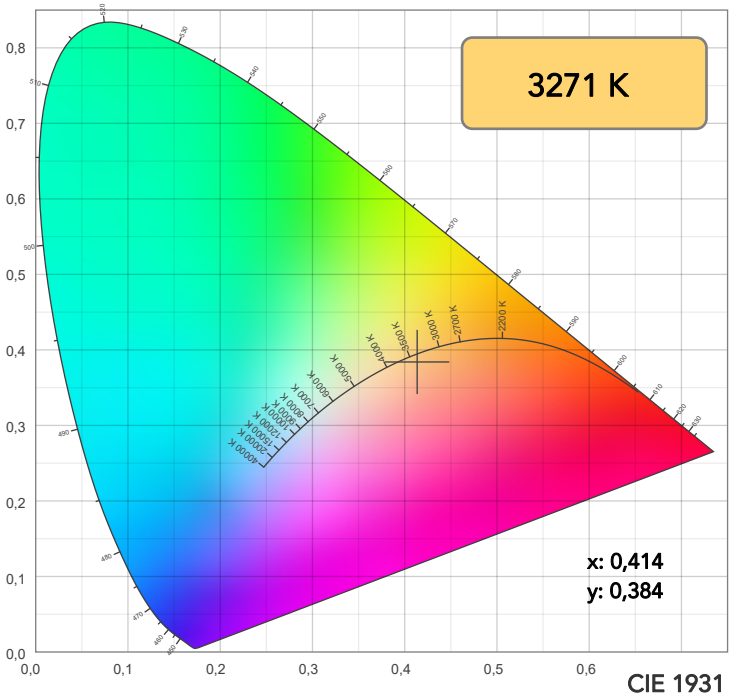


Beam angle 50%: 15,1°
Field angle 10%: 26°
Cut off angle 2.5%: 39,6°

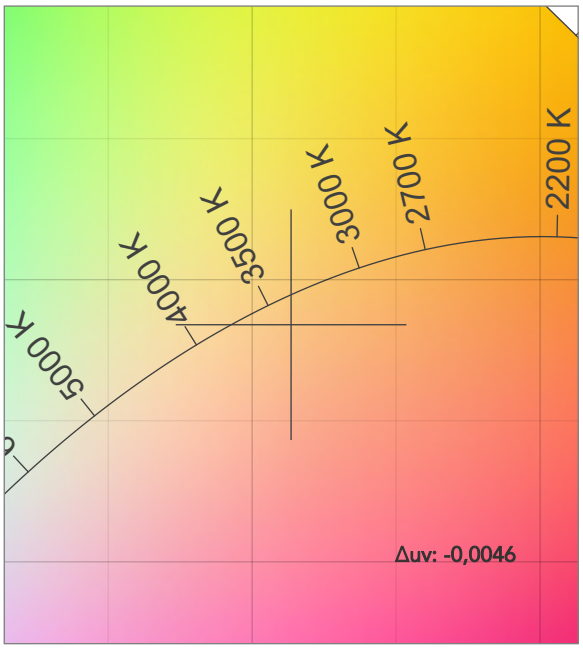
Spectra



COLOR DETAILS

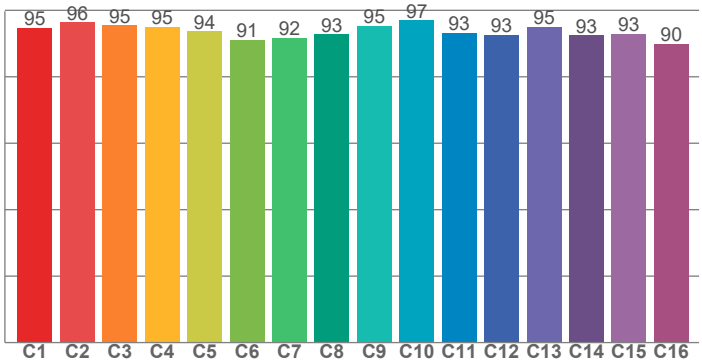


CIE 1931

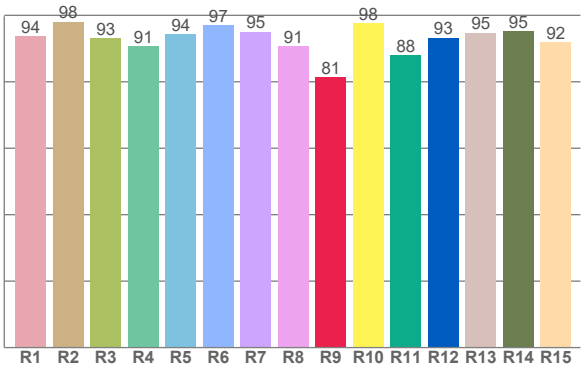


CIE 1931 ZOOM

TM30: 94,0



CRI: 94,1 (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
93,7	98,1	93,2	90,6	94,3	97,0	95,0	90,6	81,5	97,7	87,9	93,2	94,7	95,2	92,0

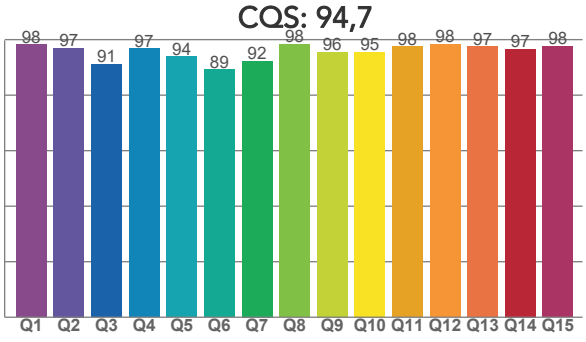
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,7	96,4	95,4	95,1	93,7	91,0	91,8	92,8	95,3	97,0	93,3	92,5	95,1	92,5	93,0	89,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,3	97,0	91,1	96,7	93,9	89,3	92,2	98,3	95,5	95,5	97,6	98,3	97,4	96,7	97,6

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
3271 K	94,1	81,5	94,0	106,3	94,7	96	0,414	0,384	-0,0046

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TM30 DETAILS

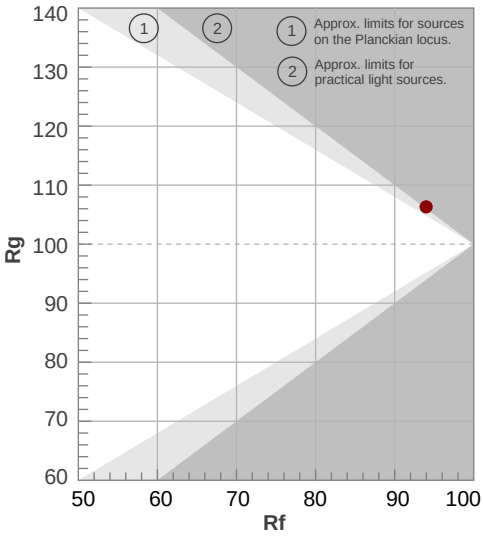
Rf 94,0

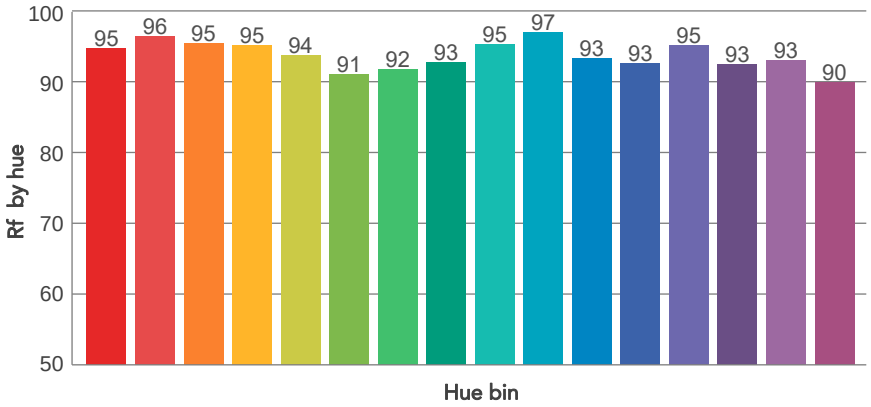
Fidelity index Rf

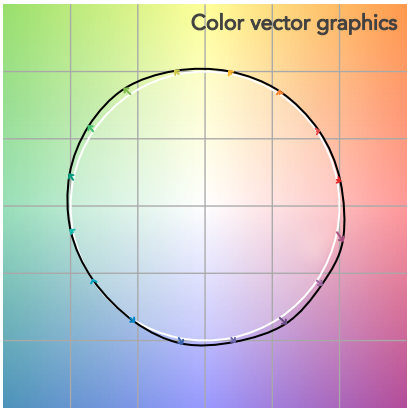
Rg 106,3

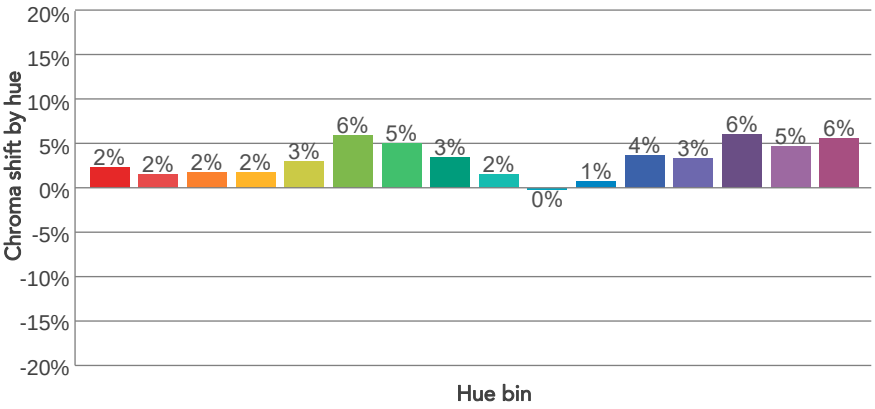
Gammut index

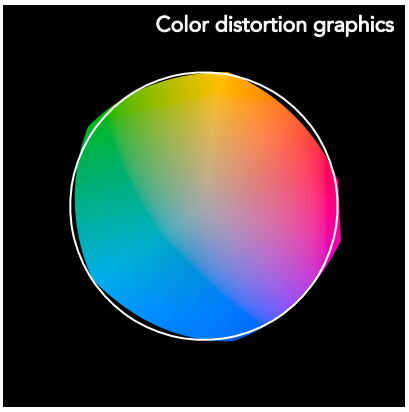
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	95	2%	-1%
2	96	2%	-1%
3	95	2%	2%
4	95	2%	2%
5	94	3%	2%
6	91	6%	1%
7	92	5%	-1%
8	93	3%	-3%
9	95	2%	-2%
10	97	0%	-1%
11	93	1%	4%
12	93	4%	3%
13	95	3%	2%
14	93	6%	2%
15	93	5%	0%
16	90	6%	-5%

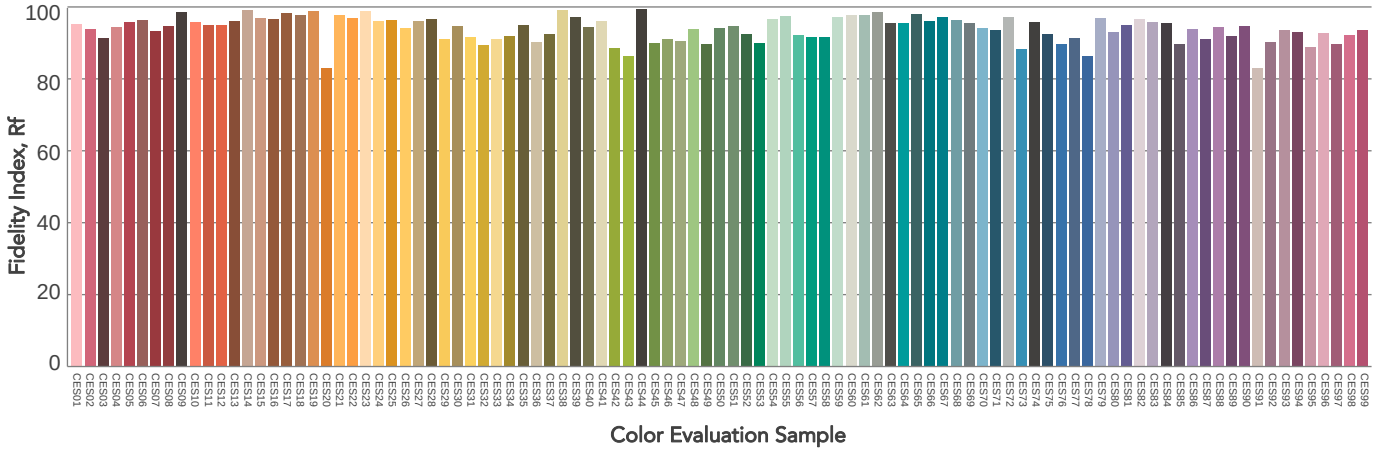












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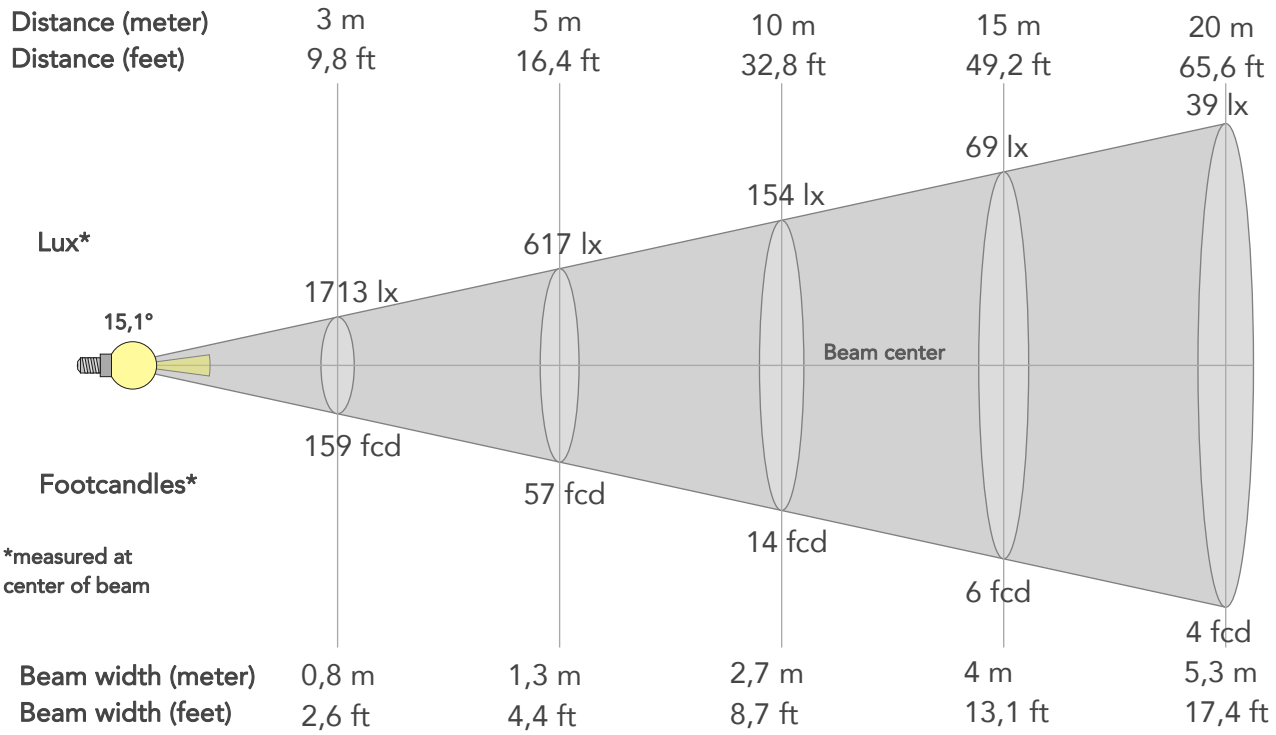
BEAM DETAILS

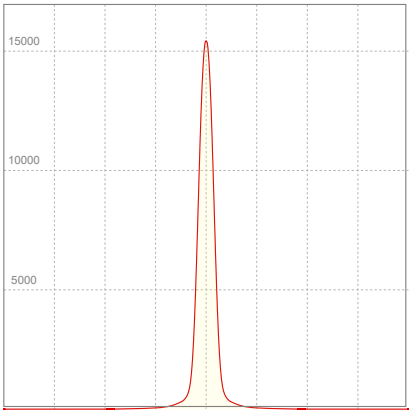
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,1°	26°	39,6°	97,2%	94,1%



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	15415lx	3854lx	1713lx	963lx	617lx	274lx	154lx	69lx	39lx	25lx	17lx	10lx	6lx
Footcand.	1432fcd	358fcd	159fcd	90fcd	57fcd	25fcd	14fcd	6fcd	4fcd	2fcd	2fcd	1fcd	1fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,3m	2m	2,7m	4m	5,3m	6,6m	8m	10,6m	13,3m
Beam wid.	0,9ft	1,8ft	2,6ft	3,5ft	4,4ft	6,5ft	8,7ft	13,1ft	17,4ft	21,8ft	26,1ft	34,9ft	43,6ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,144A	31,4W	0,96	47lm/W

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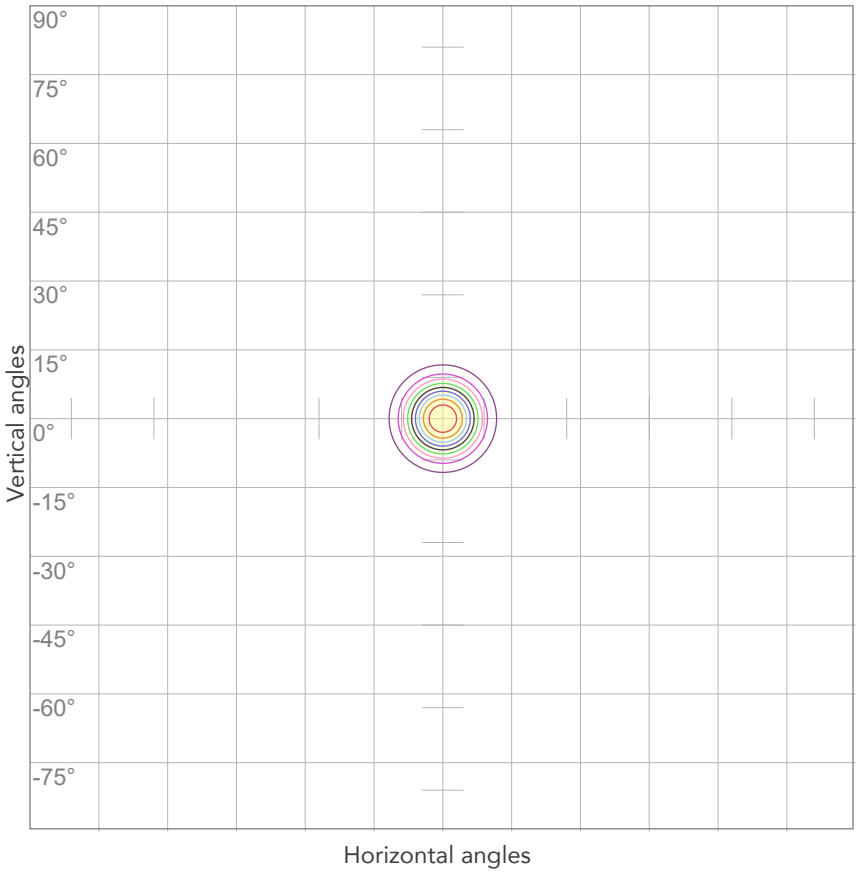
ISO DIAGRAMS

ISO CANDELA DIAGRAM



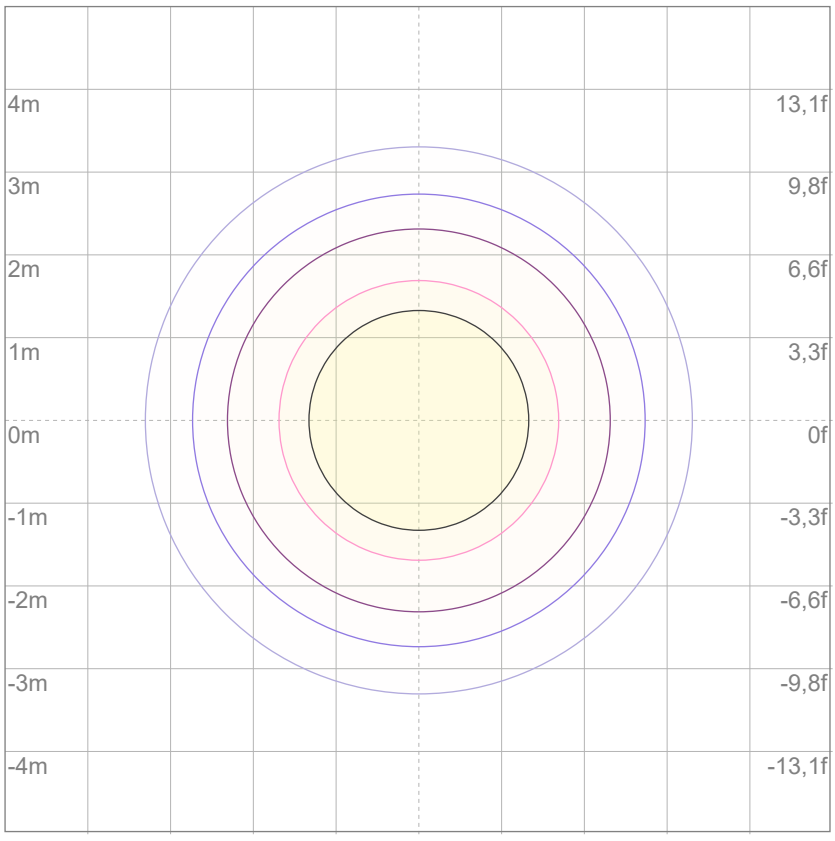
10%	1542 cd
20%	3083 cd
30%	4625 cd
40%	6166 cd
50%	7708 cd
60%	9249 cd
70%	10791 cd
80%	12332 cd

Conditions:

Number of c-planes: 2

Candela at center: 15415 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	4,62 lx
5%	7,71 lx
10%	15,4 lx
30%	46,2 lx
50%	77,1 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:

1610 lm

Peak candela output:

16750 cd

Light quality:

CRI: 93,6

Color temperature:

4050 K

PRODUCT NAME:

ARCSPOTS VW

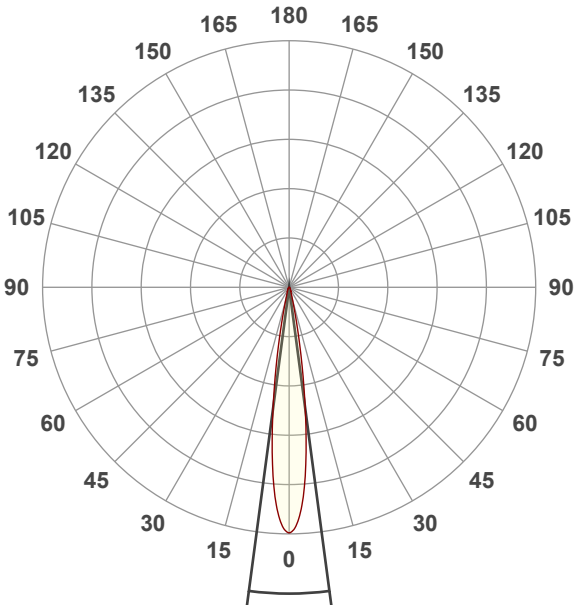
MEASURAMENT CONDITIONS:

Beam angle:
15°

Target:
4000K

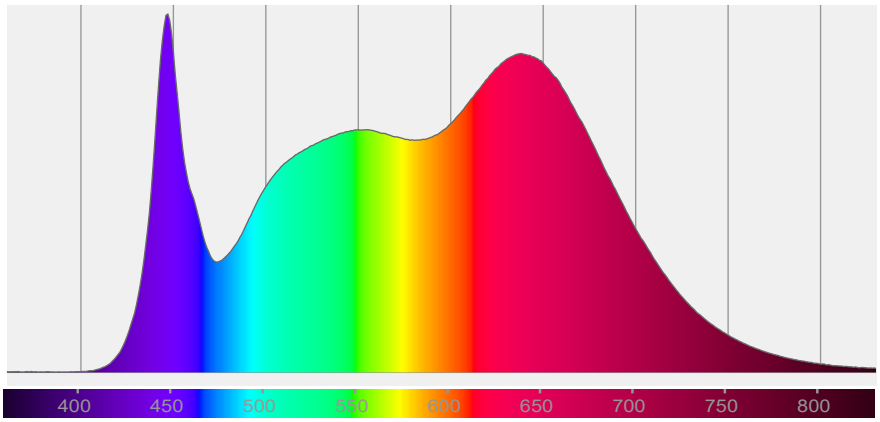
Operator:
Salvatore Giglio

Date and time:
20/02/2024 12:40:44

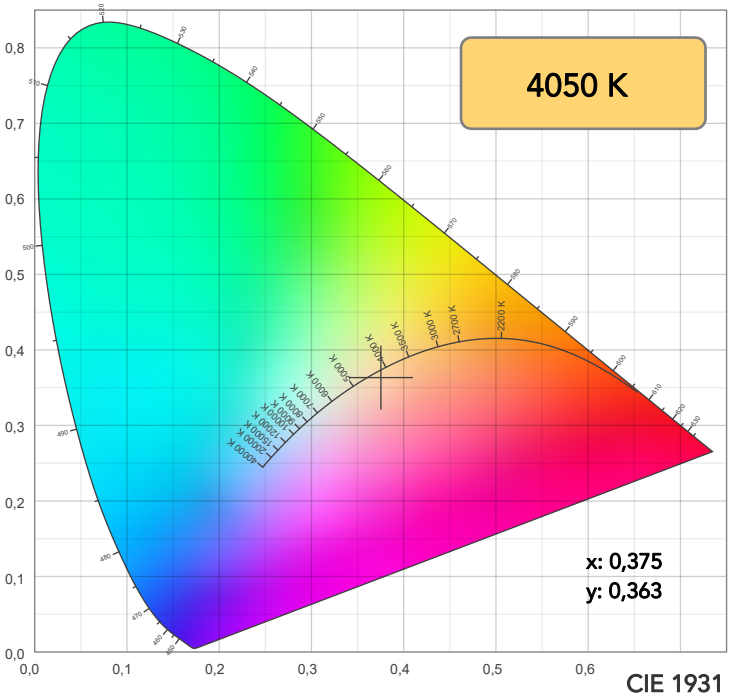


Beam angle 50%: 15,1°
Field angle 10%: 26,1°
Cut off angle 2.5%: 39,6°

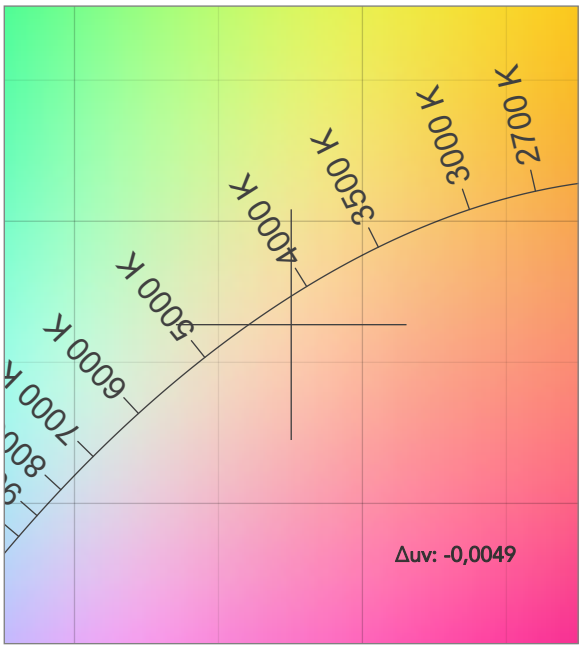
Spectra



COLOR DETAILS

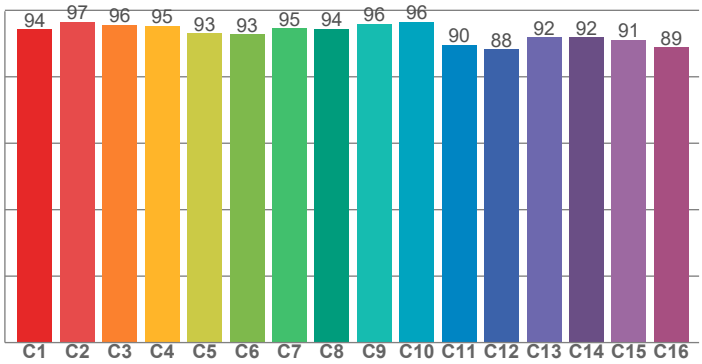


CIE 1931

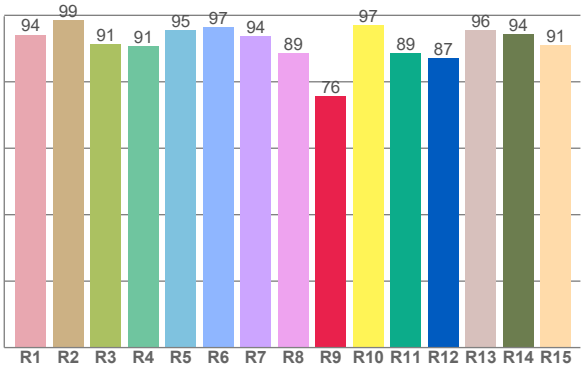


CIE 1931 ZOOM

TM30: 93,4



CRI: 93,6 (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
94,2	98,6	91,3	90,8	95,4	96,5	93,8	88,6	75,7	97,0	88,7	87,0	95,6	94,4	90,9

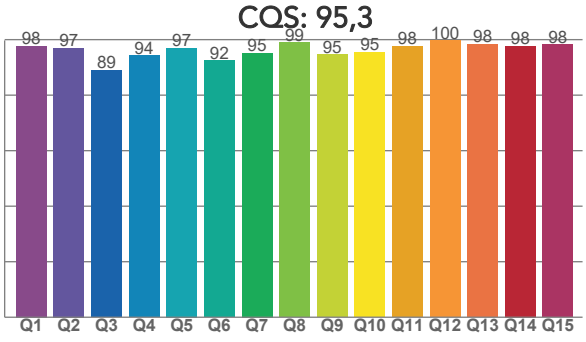
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,3	96,5	95,6	95,3	93,0	92,8	94,6	94,5	95,9	96,5	89,6	88,3	91,9	91,8	91,2	88,9

CQS Q values

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

CQS: 95,3



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4050 K	93,6	75,7	93,4	105,8	95,3	97	0,375	0,363	-0,0049

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TM30 DETAILS

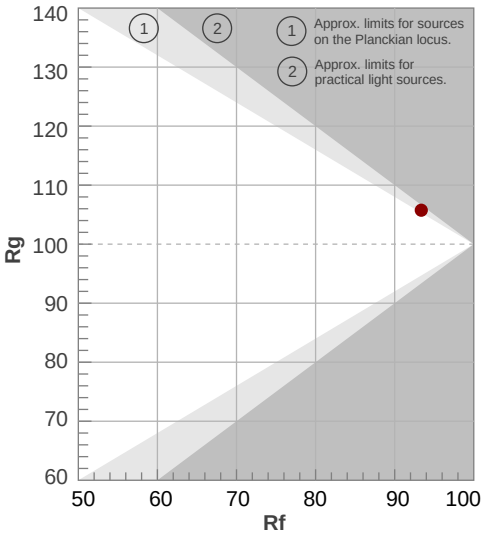
Rf 93,4

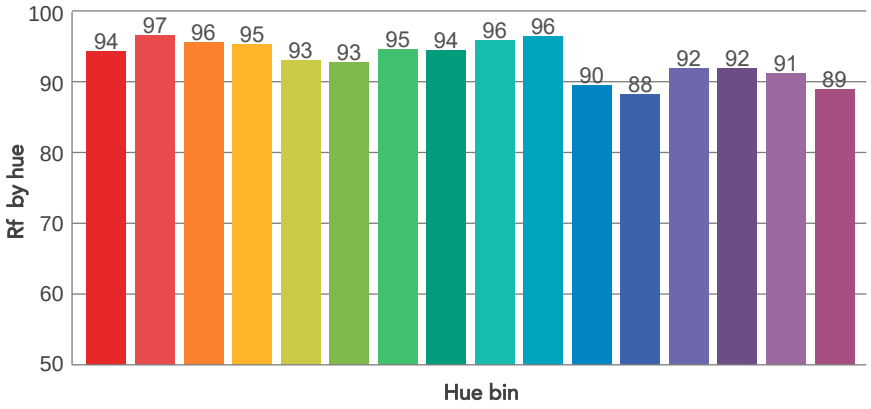
Fidelity index Rf

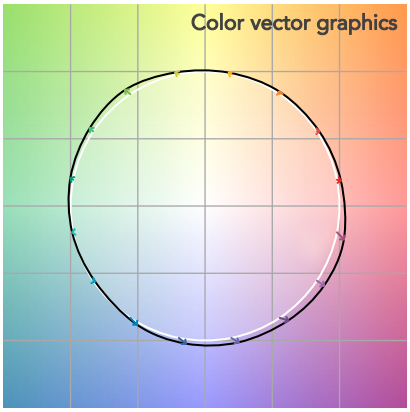
Rg 105,8

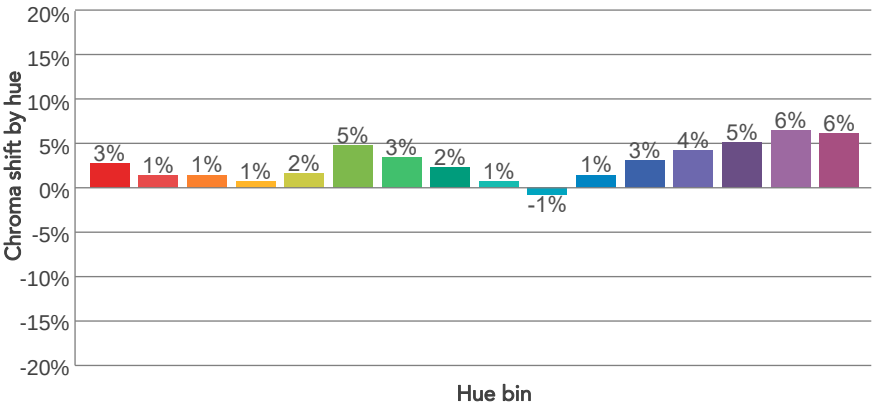
Gammut index

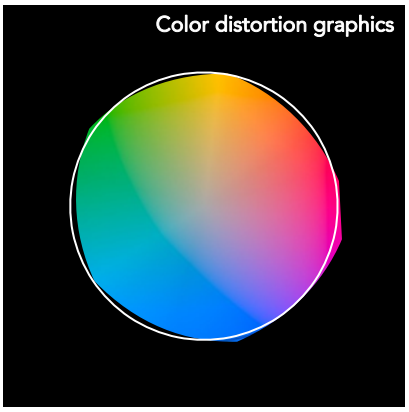
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	94	3%	-1%
2	97	1%	-1%
3	96	1%	1%
4	95	1%	2%
5	93	2%	2%
6	93	5%	1%
7	95	3%	0%
8	94	2%	-1%
9	96	1%	0%
10	96	-1%	1%
11	90	1%	7%
12	88	3%	6%
13	92	4%	5%
14	92	5%	4%
15	91	6%	0%
16	89	6%	-4%

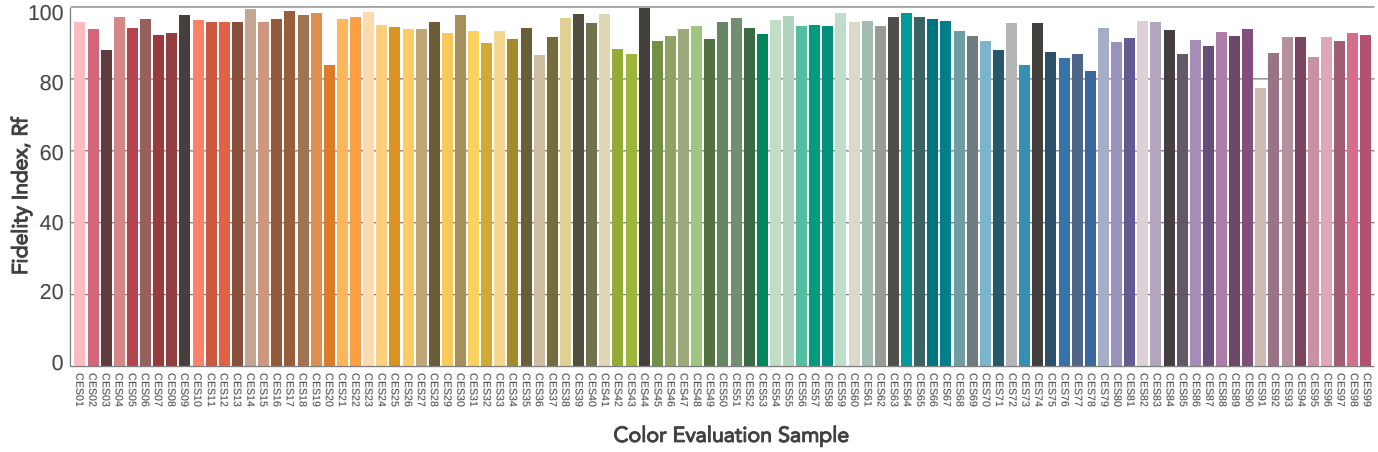












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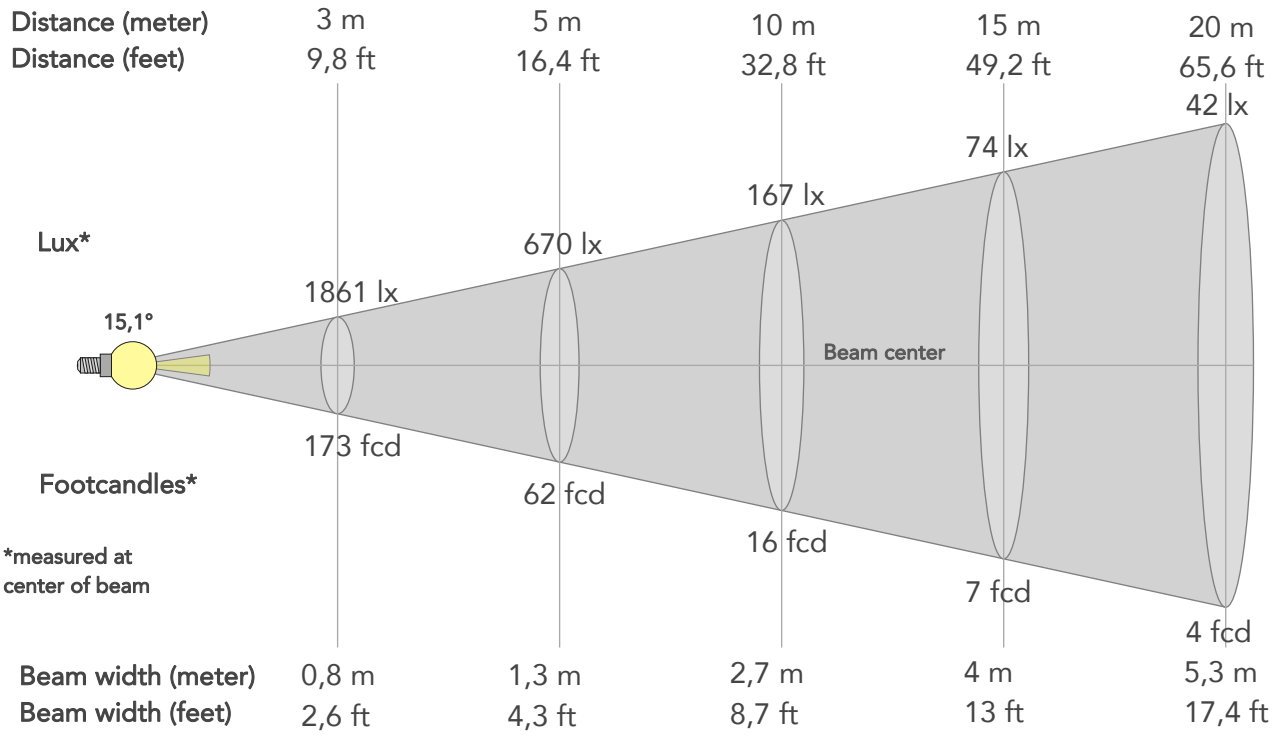
BEAM DETAILS

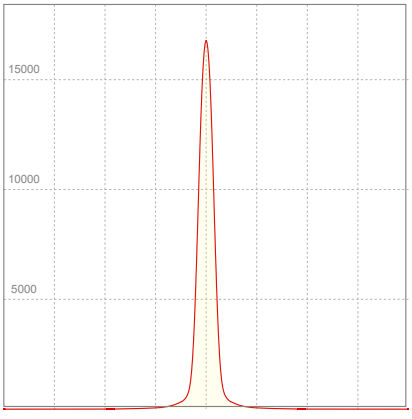
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,1°	26,1°	39,6°	96,5%	93,2%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	16750lx	4187lx	1861lx	1047lx	670lx	298lx	167lx	74lx	42lx	27lx	19lx	10lx	7lx
Footcand.	1556fcd	389fcd	173fcd	97fcd	62fcd	28fcd	16fcd	7fcd	4fcd	2fcd	2fcd	1fcd	1fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,3m	2m	2,7m	4m	5,3m	6,6m	8m	10,6m	13,3m
Beam wid.	0,9ft	1,8ft	2,6ft	3,5ft	4,3ft	6,5ft	8,7ft	13ft	17,4ft	21,7ft	26,1ft	34,8ft	43,5ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
225V	0,147A	31,6W	0,96	51lm/W

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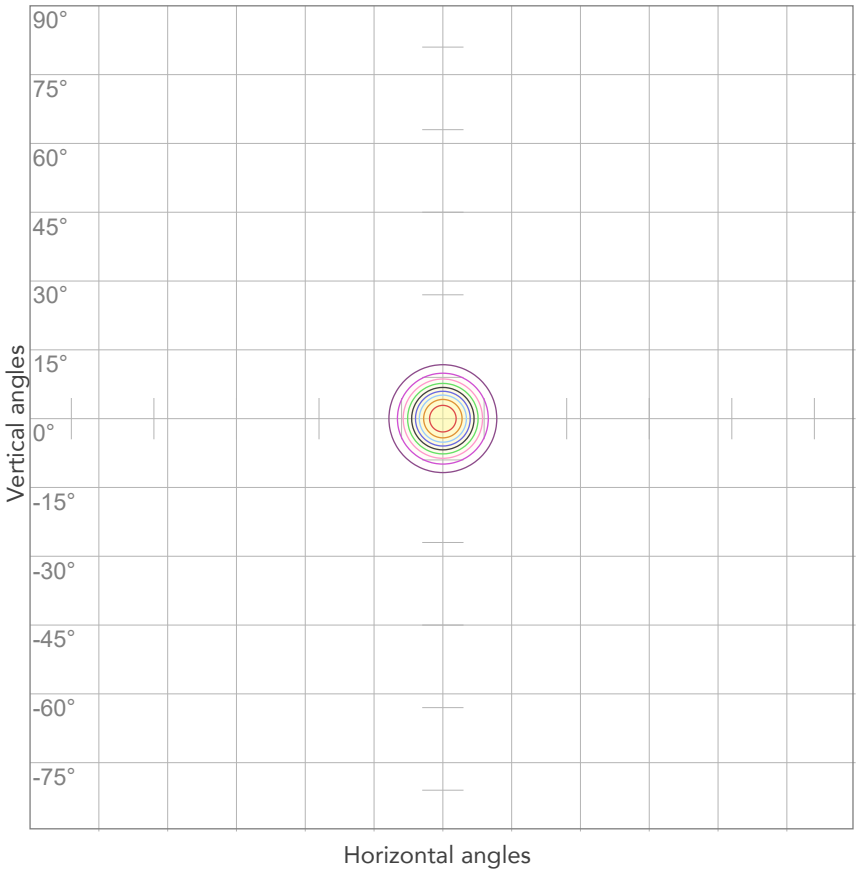
ISO DIAGRAMS

ISO CANDELA DIAGRAM



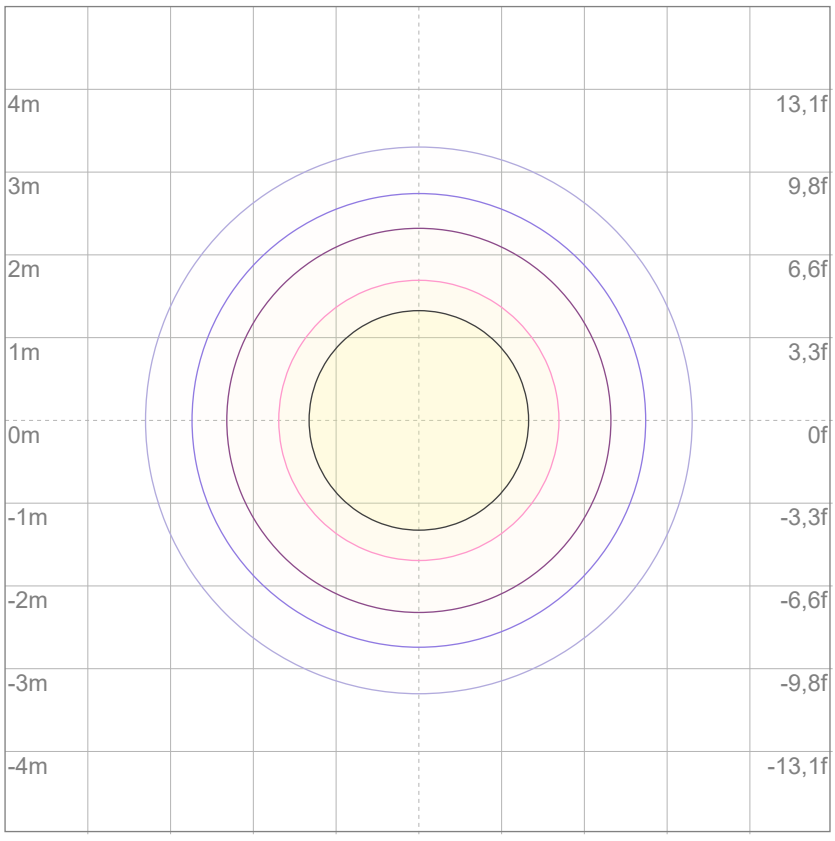
10%	1675 cd
20%	3350 cd
30%	5025 cd
40%	6700 cd
50%	8375 cd
60%	10050 cd
70%	11725 cd
80%	13400 cd

Conditions:

Number of c-planes: 2

Candela at center: 16750 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	5,02 lx
5%	8,37 lx
10%	16,7 lx
30%	50,2 lx
50%	83,7 lx

Conditions:

Number of c-planes: 2

Lux at center: 167 lx

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

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Total lumen output:

1807 lm

Peak candela output:

19002 cd

Light quality:

CRI: 94,0

Color temperature:

5673 K

PRODUCT NAME:

ARCSPOTS VW

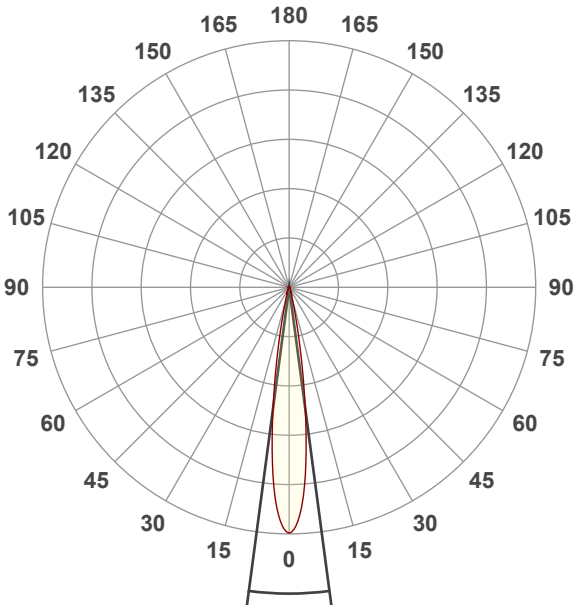
MEASURAMENT CONDITIONS:

Beam angle:
15°

Target:
5600K

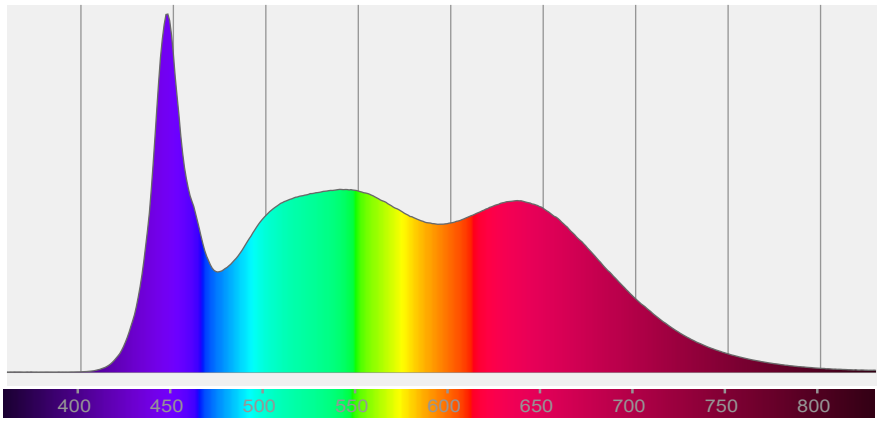
Operator:
Salvatore Giglio

Date and time:
20/02/2024 12:37:58

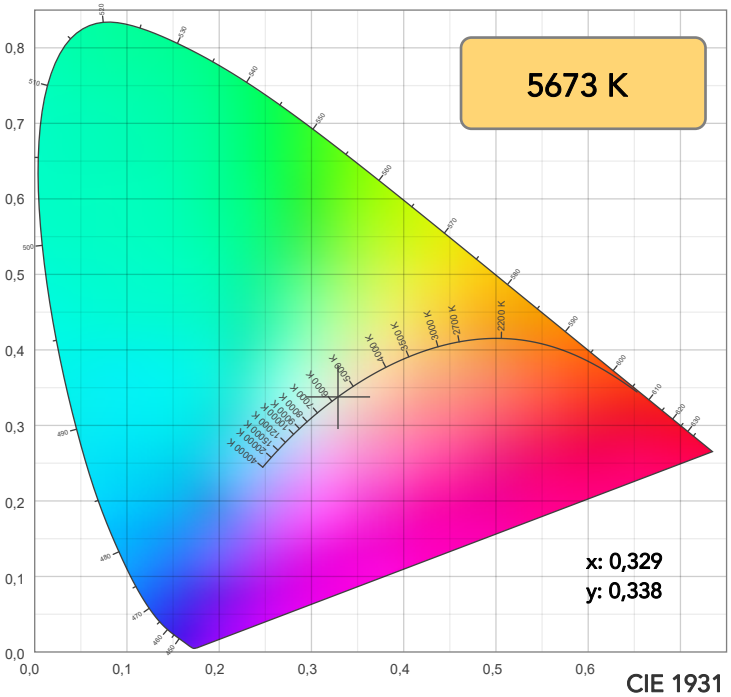


Beam angle 50%: 15,1°
Field angle 10%: 26,1°
Cut off angle 2.5%: 39,6°

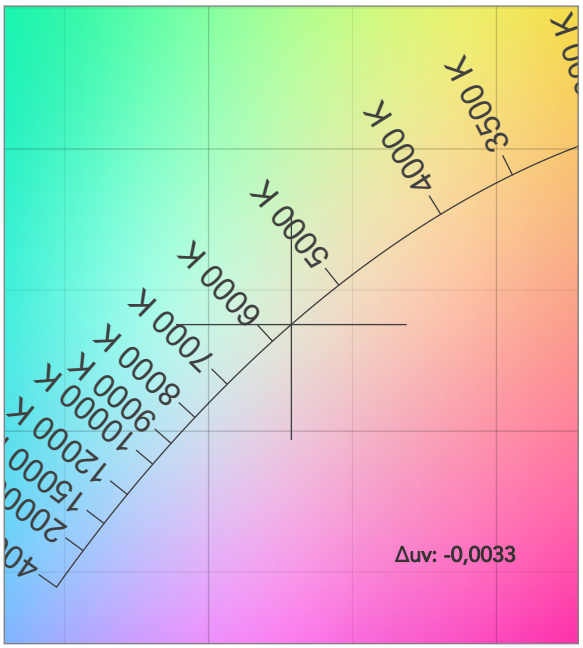
Spectra



COLOR DETAILS

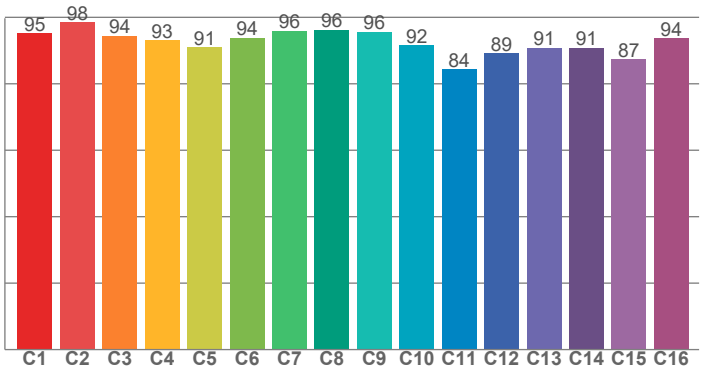


CIE 1931

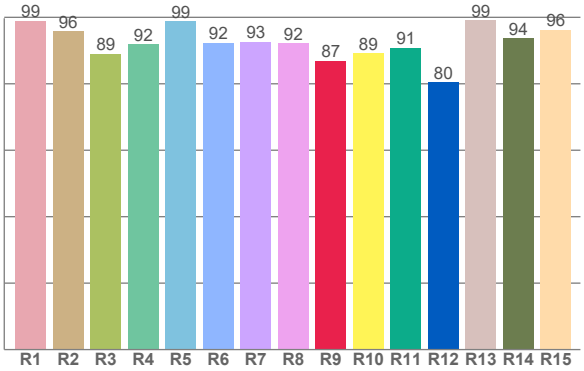


CIE 1931 ZOOM

TM30: 92,6



CRI: 94,0 (R1-R8)



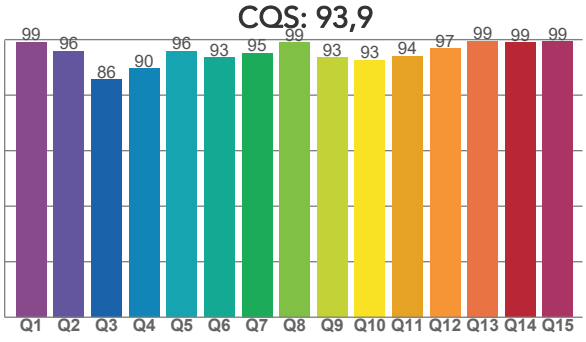
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
99,0	95,8	89,0	91,9	98,8	92,4	92,7	92,2	87,0	89,1	90,8	80,4	99,2	93,7	96,2

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,2	98,5	94,4	93,1	90,9	93,8	96,0	96,3	95,7	91,6	84,4	89,2	90,8	90,7	87,3	93,6

CQS: 93,9



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
99,1	96,0	85,6	89,6	95,8	93,5	95,2	98,9	93,5	92,6	94,1	96,8	99,4	99,0	99,3

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
5673 K	94,0	87,0	92,6	104,4	93,9	98	0,329	0,338	-0,0033

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TM30 DETAILS

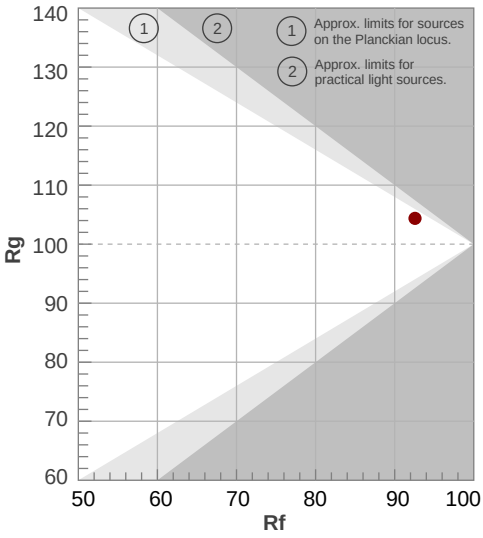
Rf 92,6

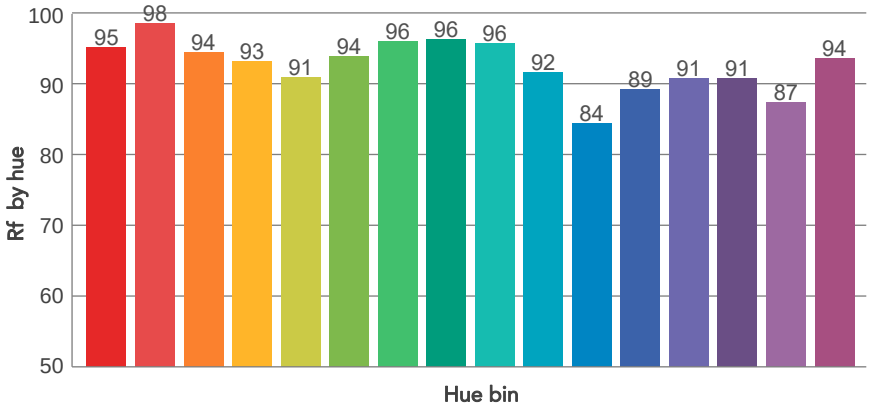
Fidelity index Rf

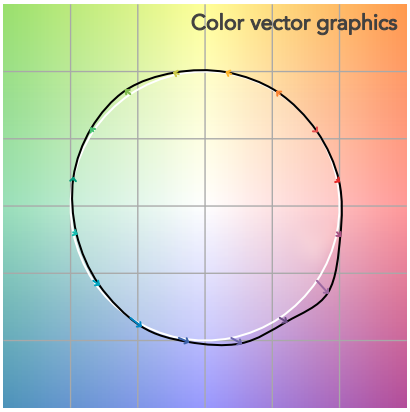
Rg 104,4

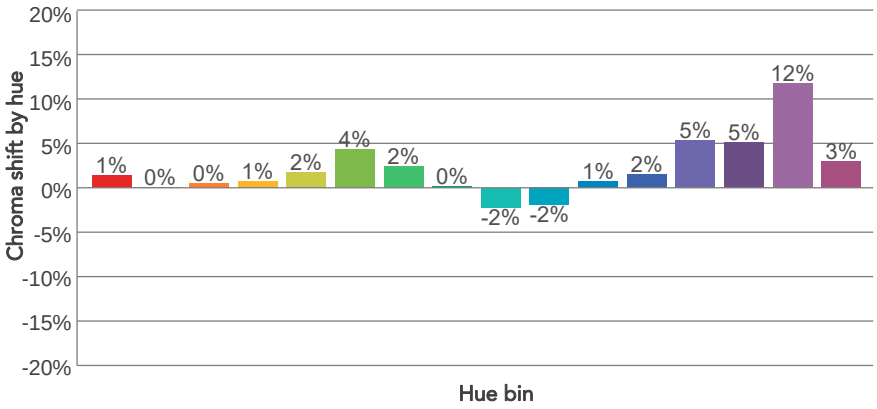
Gammut index

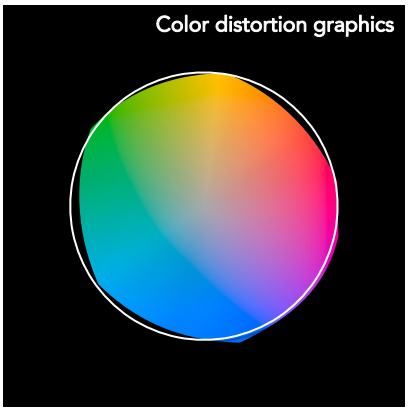
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	95	1%	-1%
2	98	0%	0%
3	94	0%	3%
4	93	1%	4%
5	91	2%	3%
6	94	4%	1%
7	96	2%	-1%
8	96	0%	-1%
9	96	-2%	2%
10	92	-2%	5%
11	84	1%	10%
12	89	2%	7%
13	91	5%	6%
14	91	5%	3%
15	87	12%	-3%
16	94	3%	-2%

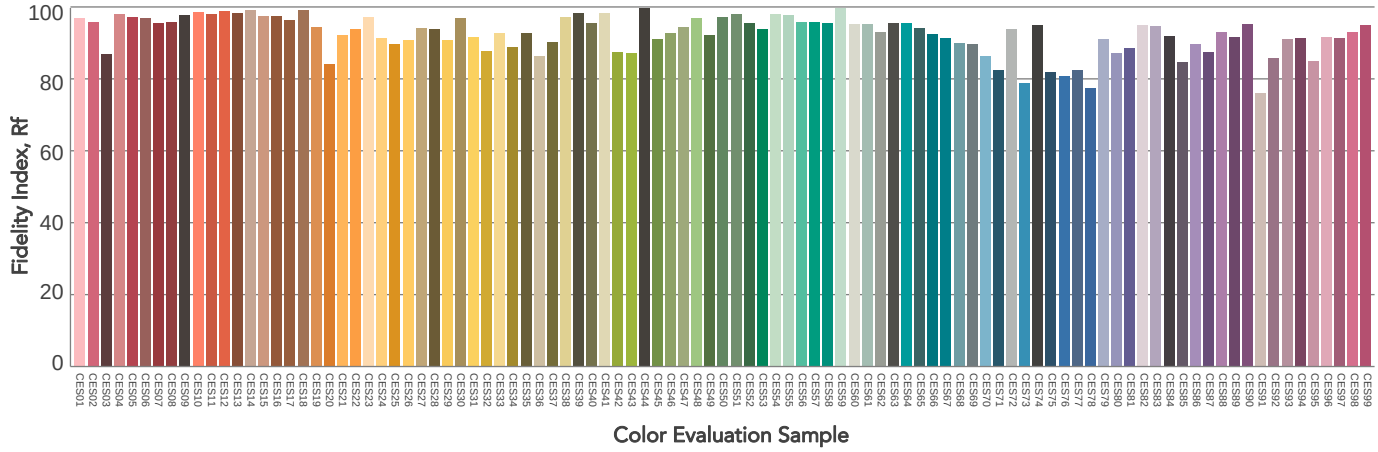












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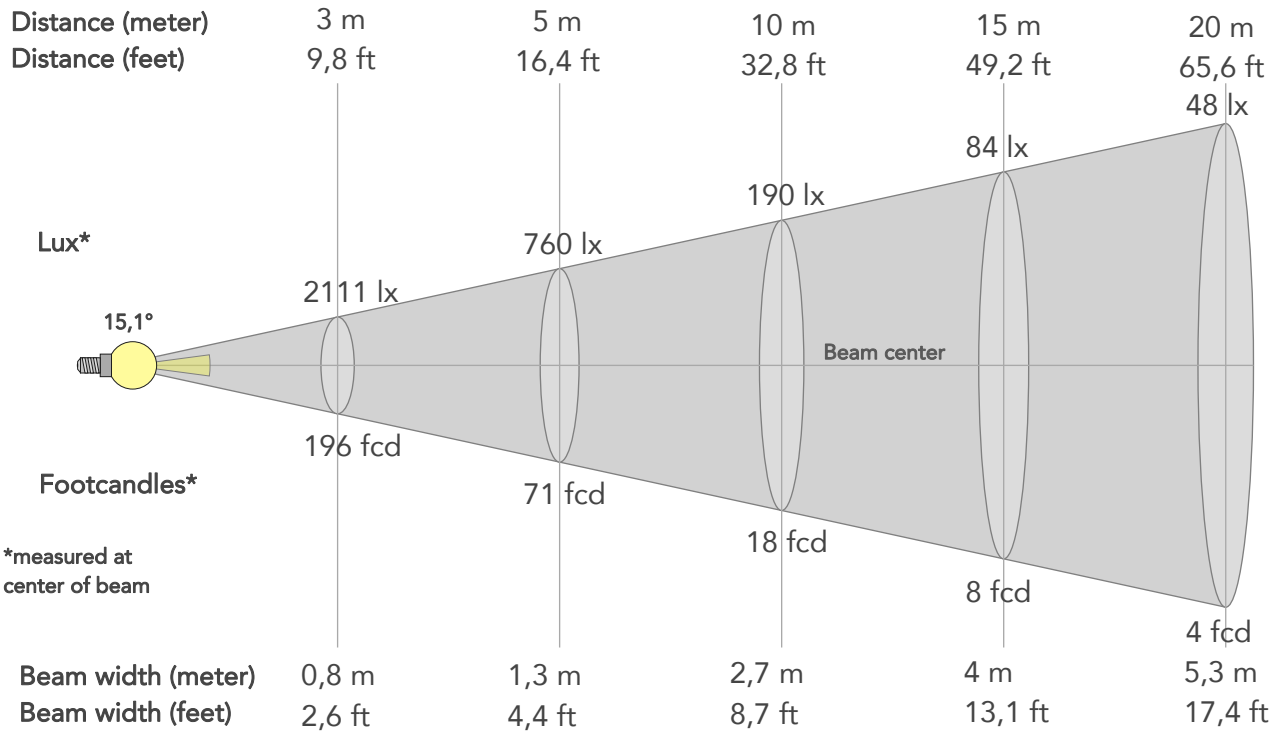
BEAM DETAILS

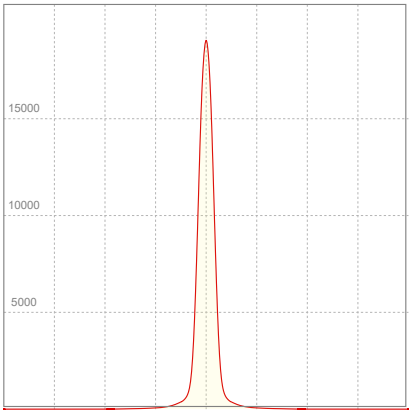
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,1°	26,1°	39,6°	97,2%	94,2%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	19002lx	4750lx	2111lx	1188lx	760lx	338lx	190lx	84lx	48lx	30lx	21lx	12lx	8lx
Footcand.	1765fcd	441fcd	196fcd	110fcd	71fcd	31fcd	18fcd	8fcd	4fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,3m	2m	2,7m	4m	5,3m	6,6m	8m	10,6m	13,3m
Beam wid.	0,9ft	1,8ft	2,6ft	3,5ft	4,4ft	6,5ft	8,7ft	13,1ft	17,4ft	21,8ft	26,1ft	34,8ft	43,5ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
225V	0,146A	31,5W	0,96	57lm/W

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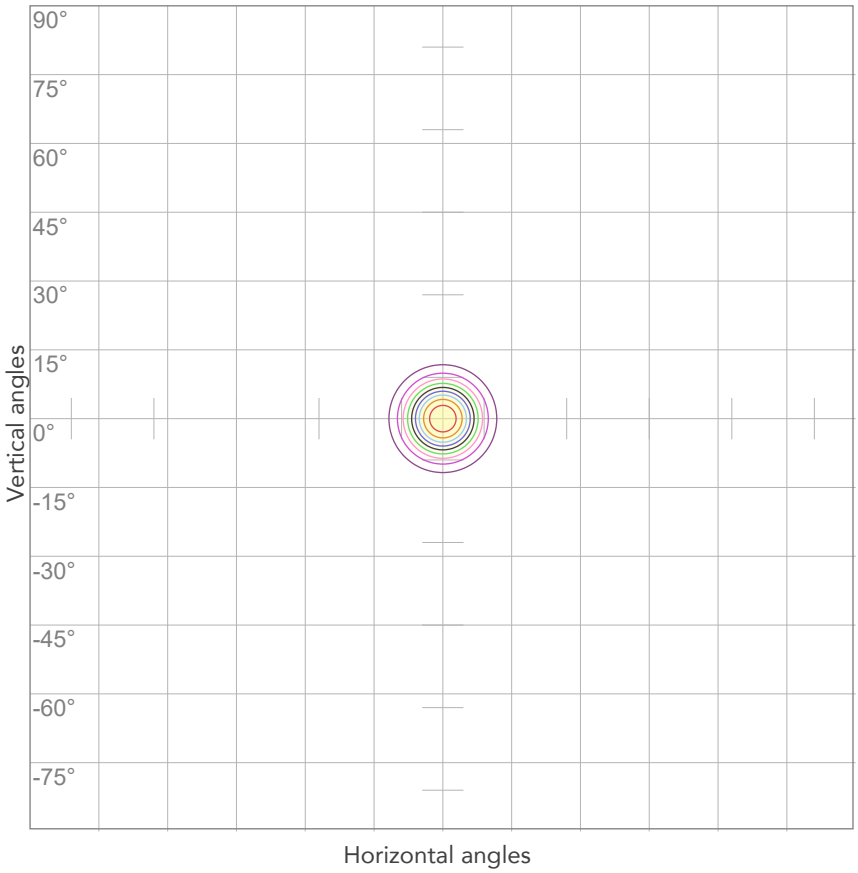
ISO DIAGRAMS

ISO CANDELA DIAGRAM



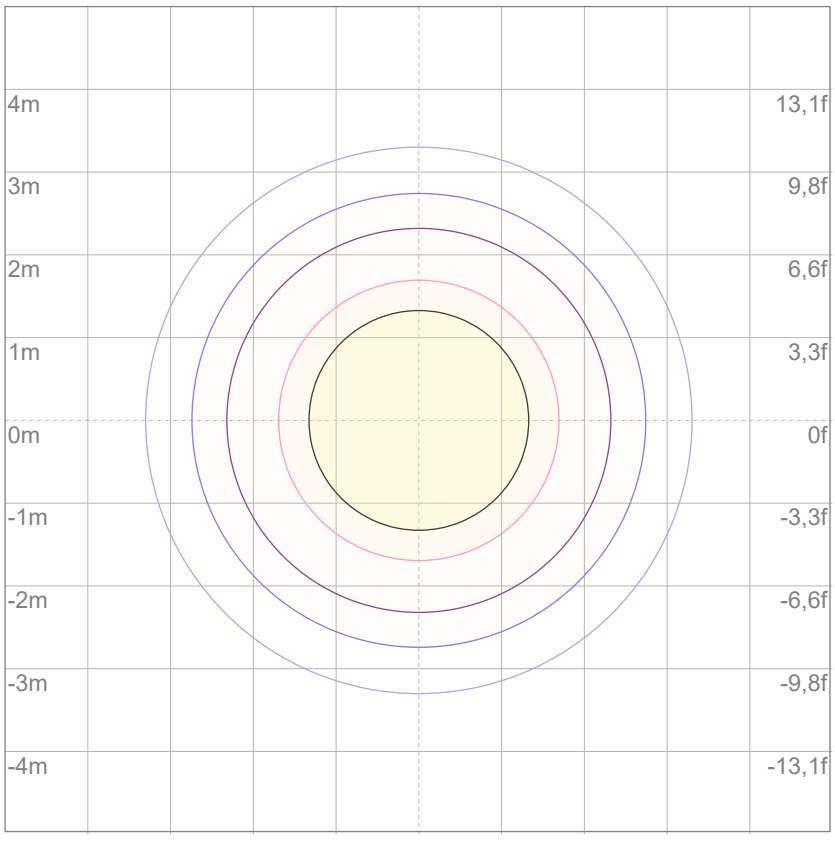
10%	1900 cd
20%	3800 cd
30%	5701 cd
40%	7601 cd
50%	9501 cd
60%	11401 cd
70%	13301 cd
80%	15201 cd

Conditions:

Number of c-planes: 2

Candela at center: 19002 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	5,70 lx
5%	9,50 lx
10%	19,0 lx
30%	57,0 lx
50%	95,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 190 lx

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

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Total lumen output:

1638 lm

Peak candela output:

17039 cd

Light quality:

CRI: 92,9

Color temperature:

6689 K

PRODUCT NAME:

ARCSPOTS VW

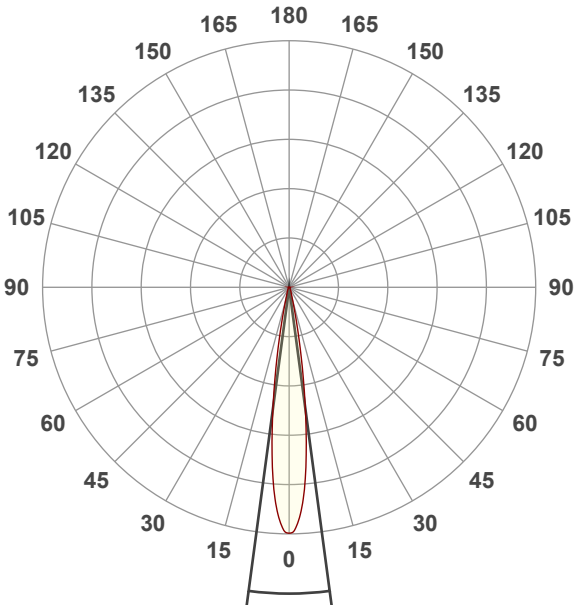
MEASURAMENT CONDITIONS:

Beam angle:
15°

Target:
6500K

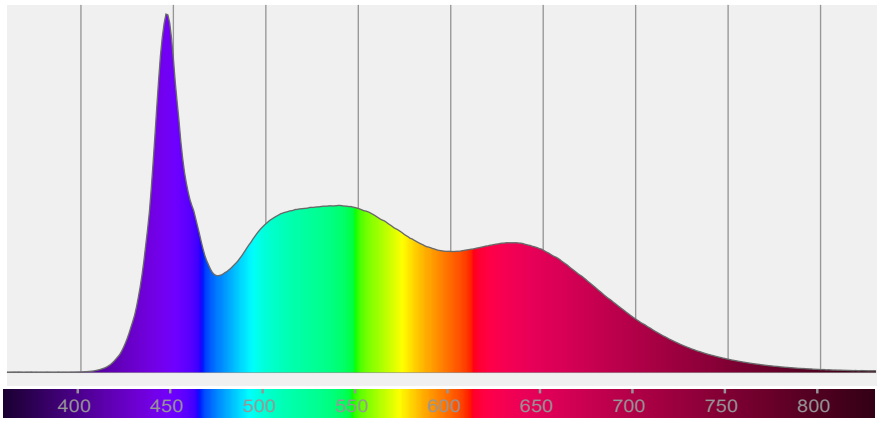
Operator:
Salvatore Giglio

Date and time:
20/02/2024 12:19:19



Beam angle 50%: 15,2°
Field angle 10%: 26,2°
Cut off angle 2.5%: 39,8°

Spectra



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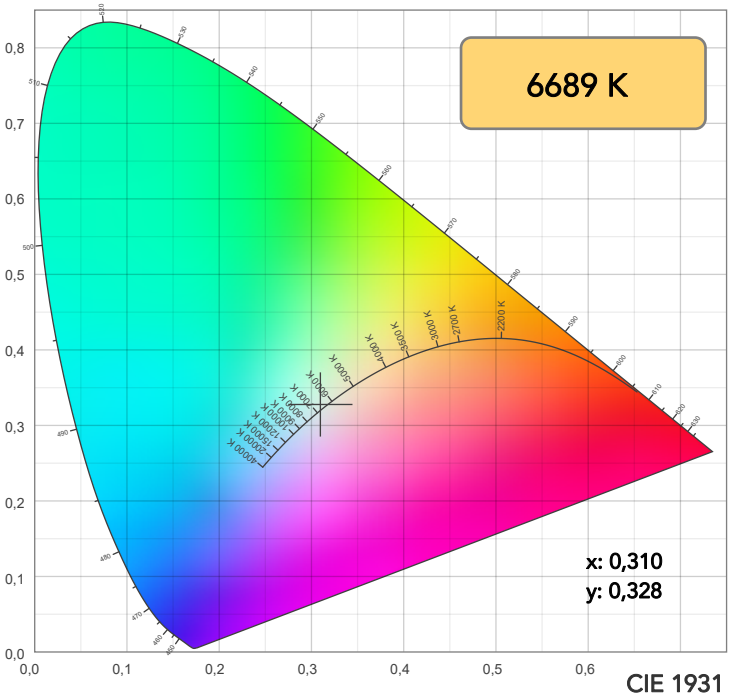
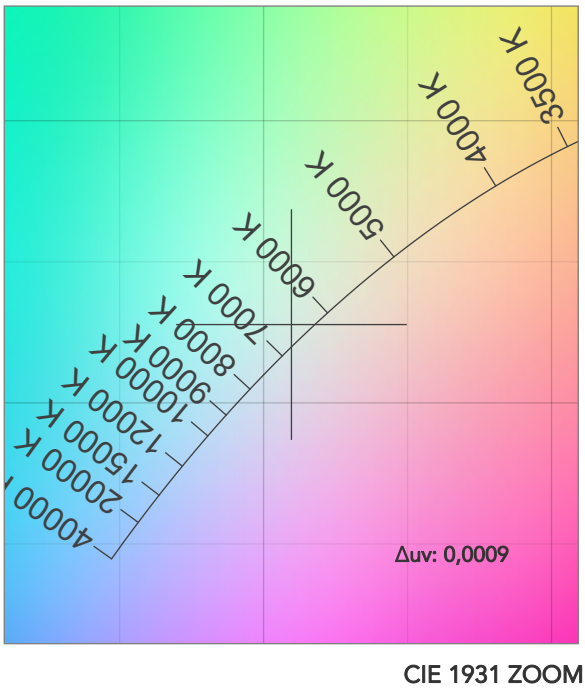
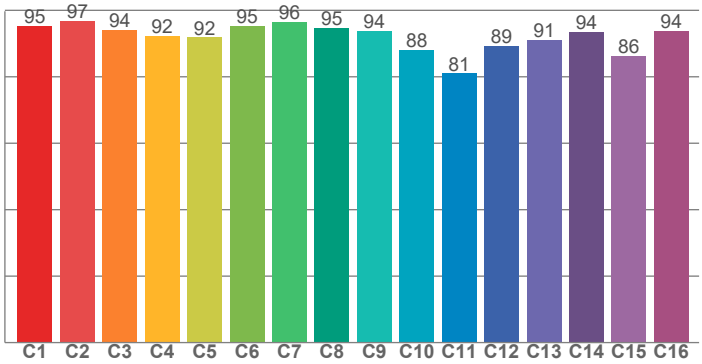
COLOR DETAILS

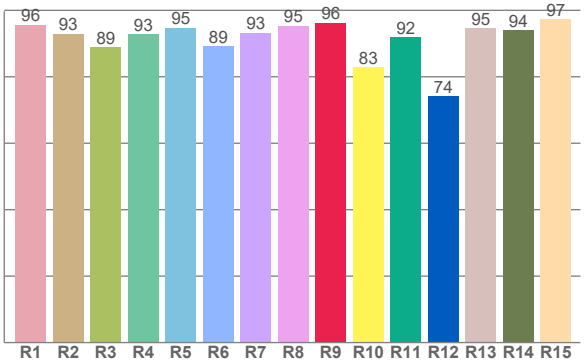




TM30: 92,1



CRI: 92,9 (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
95,6	93,0	88,9	92,9	94,7	89,1	93,2	95,4	96,3	83,0	91,8	74,0	94,5	94,0	97,3

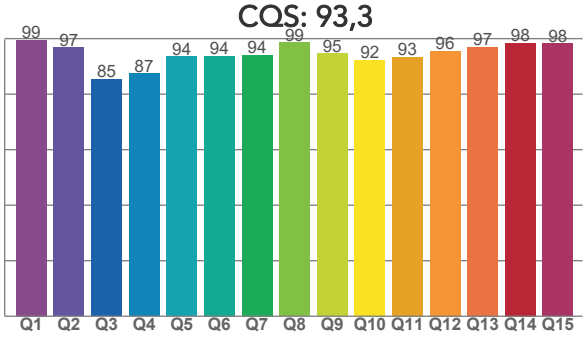
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,4	96,8	94,2	92,3	91,9	95,3	96,5	94,7	93,7	88,0	81,1	89,3	91,1	93,5	86,4	93,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
99,5	96,8	85,4	87,3	93,5	93,7	94,1	98,5	94,6	92,3	93,4	95,5	97,0	98,4	98,3

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
6689 K	92,9	96,3	92,1	101,9	93,3	98	0,310	0,328	0,0009

TM30 DETAILS

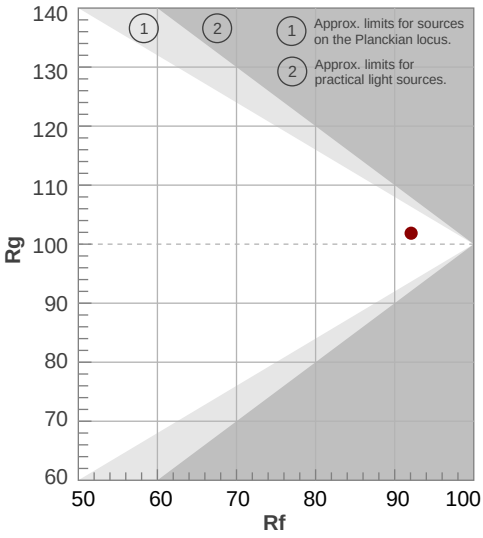
Rf 92,1

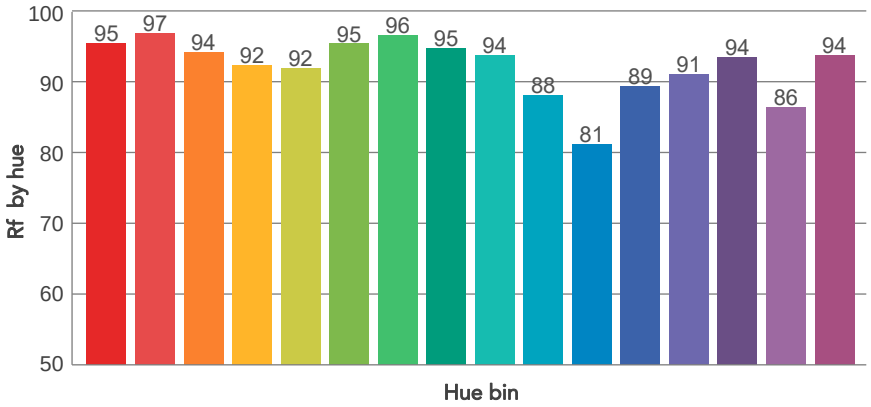
Fidelity index Rf

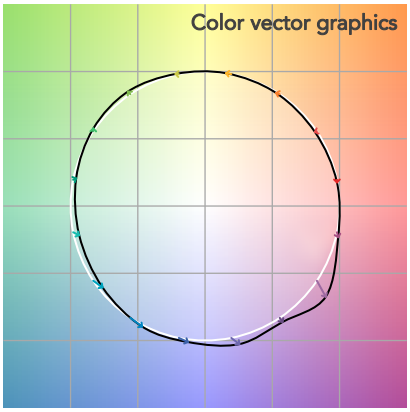
Rg 101,9

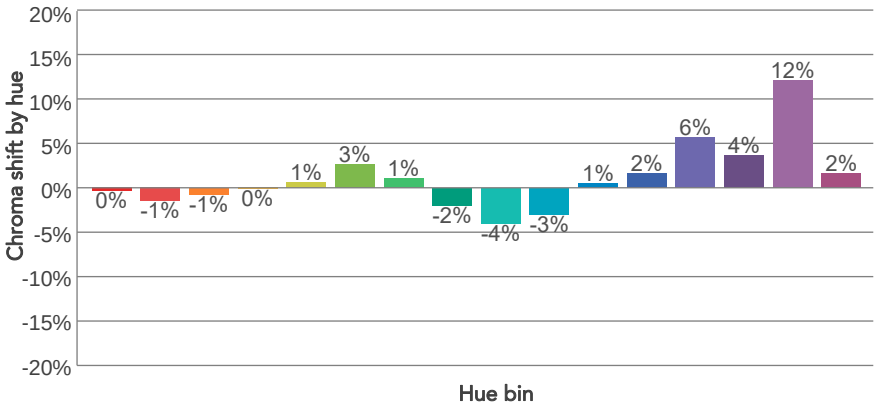
Gammut index

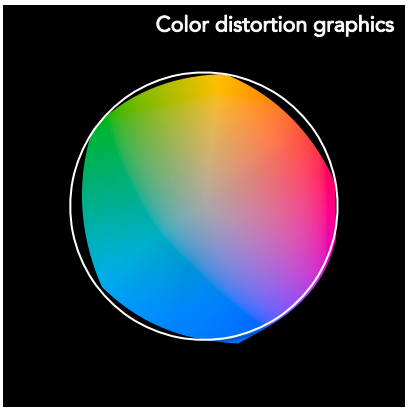
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	95	0%	-2%
2	97	-1%	0%
3	94	-1%	3%
4	92	0%	4%
5	92	1%	2%
6	95	3%	0%
7	96	1%	-2%
8	95	-2%	-1%
9	94	-4%	3%
10	88	-3%	8%
11	81	1%	11%
12	89	2%	7%
13	91	6%	5%
14	94	4%	0%
15	86	12%	-6%
16	94	2%	-3%

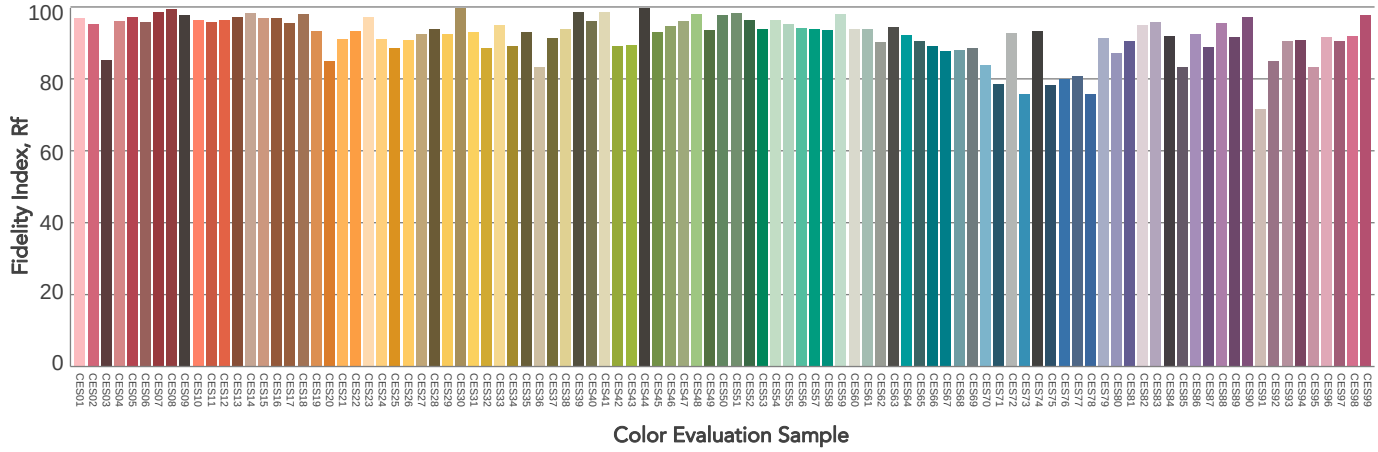












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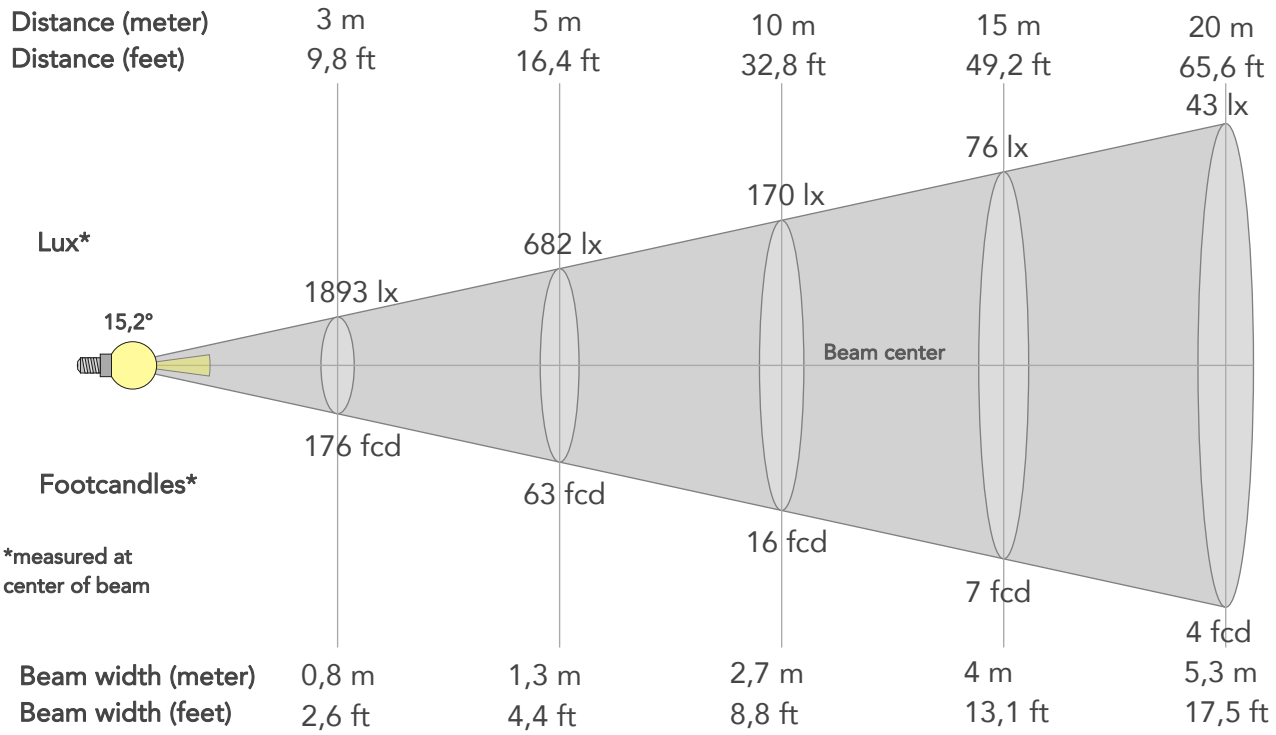
BEAM DETAILS

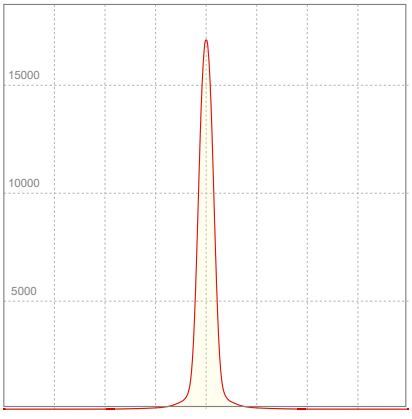
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,2°	26,2°	39,8°	97,4%	94,2%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	17039lx	4260lx	1893lx	1065lx	682lx	303lx	170lx	76lx	43lx	27lx	19lx	11lx	7lx
Footcand.	1583fcd	396fcd	176fcd	99fcd	63fcd	28fcd	16fcd	7fcd	4fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,3m	2m	2,7m	4m	5,3m	6,7m	8m	10,7m	13,3m
Beam wid.	0,9ft	1,8ft	2,6ft	3,5ft	4,4ft	6,6ft	8,8ft	13,1ft	17,5ft	21,9ft	26,3ft	35ft	43,8ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,127A	26,9W	0,93	61lm/W

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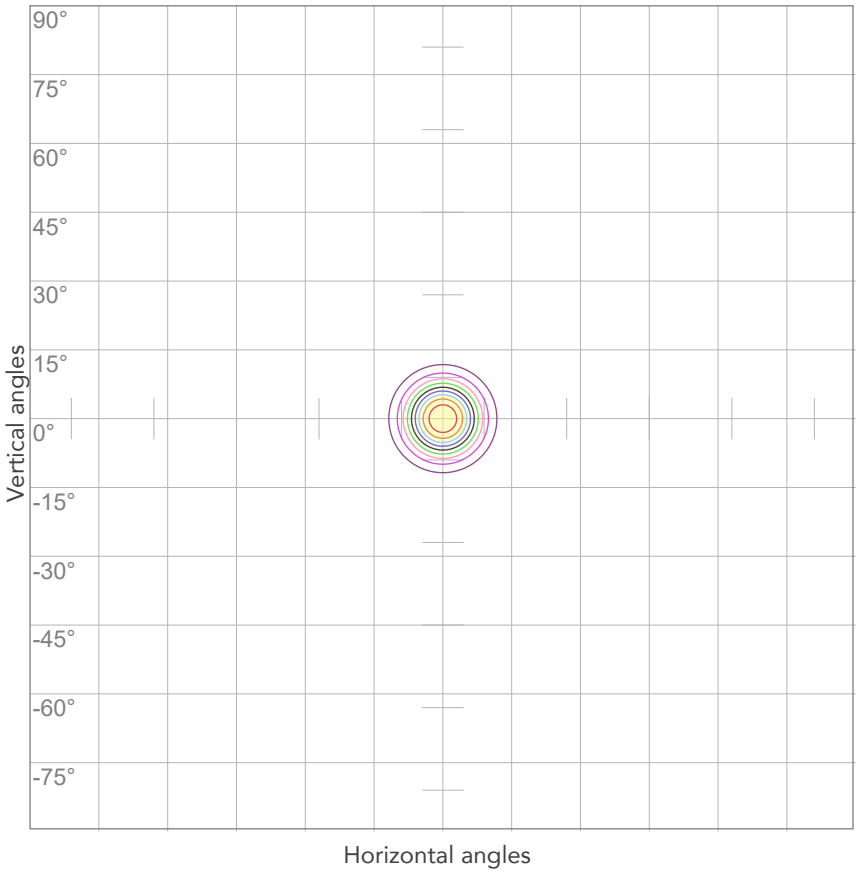
ISO DIAGRAMS

ISO CANDELA DIAGRAM



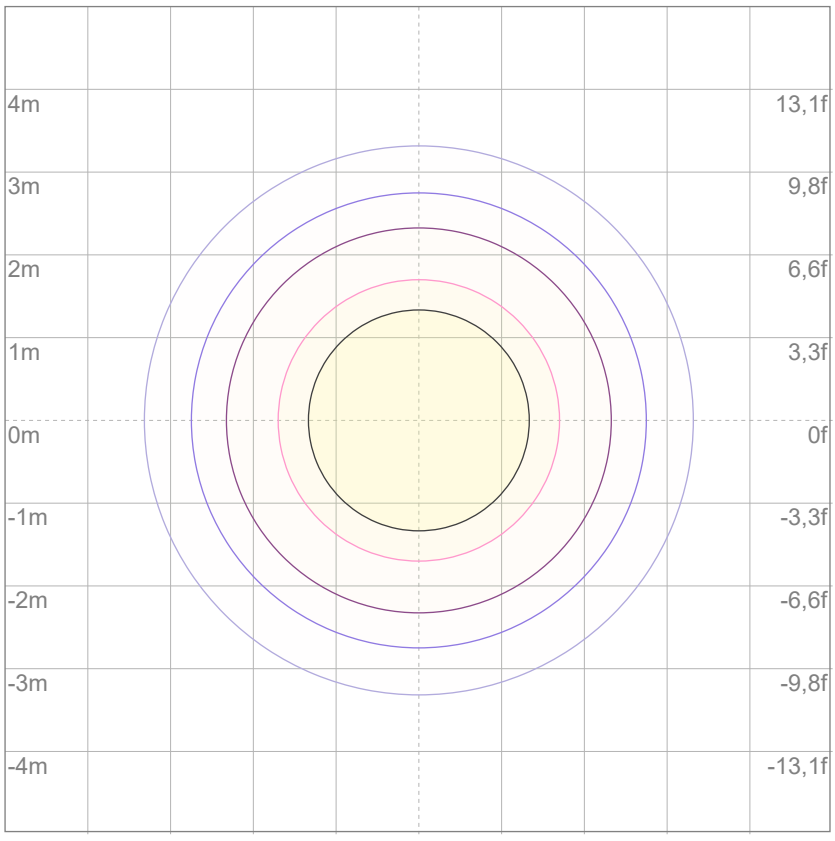
10%	1704 cd
20%	3408 cd
30%	5112 cd
40%	6816 cd
50%	8519 cd
60%	10223 cd
70%	11927 cd
80%	13631 cd

Conditions:

Number of c-planes: 2

Candela at center: 17039 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	5,11 lx
5%	8,52 lx
10%	17,0 lx
30%	51,1 lx
50%	85,2 lx

Conditions:

Number of c-planes: 2

Lux at center: 170 lx

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

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