

Photometric Test Report



ARCSHINEM9VW

9 x 4 W IP66 Variable White
architectural linear fixture, 50 cm

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TESTING PROCESS

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

Prolights measurement instrument

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

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

Prolights measurement software

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

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

Total lumen output:

2460 lm

Peak candela output:

36626 cd

Light quality:

CRI: 85,7

Color temperature:

4325 K



PRODUCT NAME:

ARCSHINEM9VW

MEASURAMENT CONDITIONS:

Beam angle:

8°

Target:

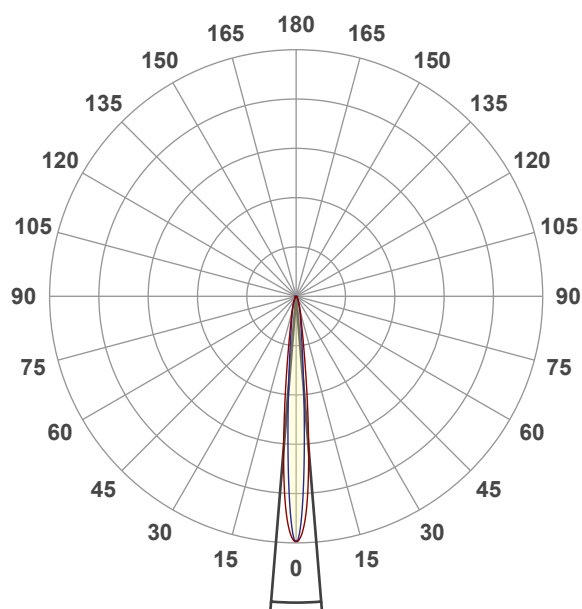
Full on

Operator:

Paolo Carvone

Date and time:

08/09/2022 17:54:54

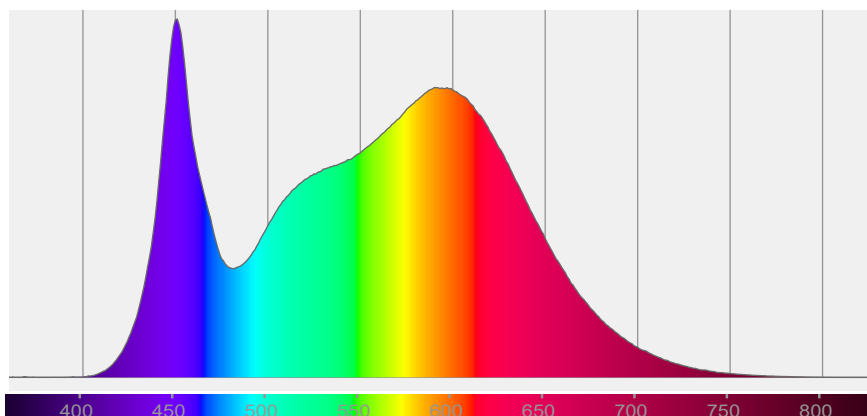


Beam angle 50%: 9,4°

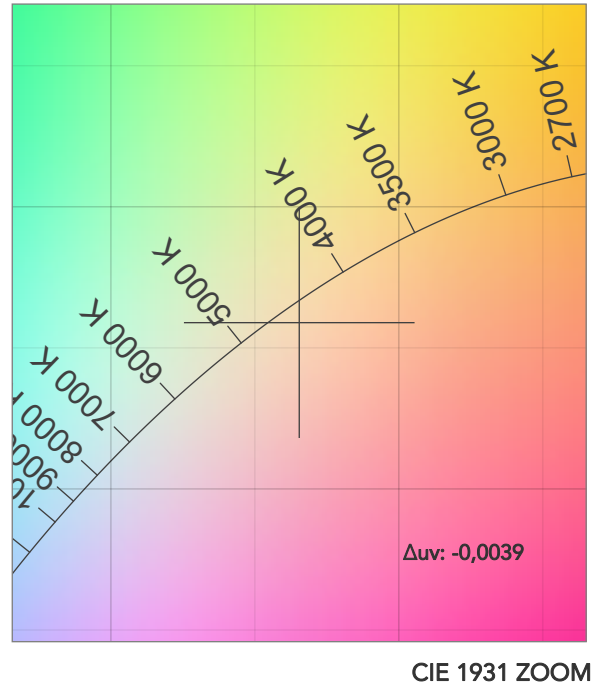
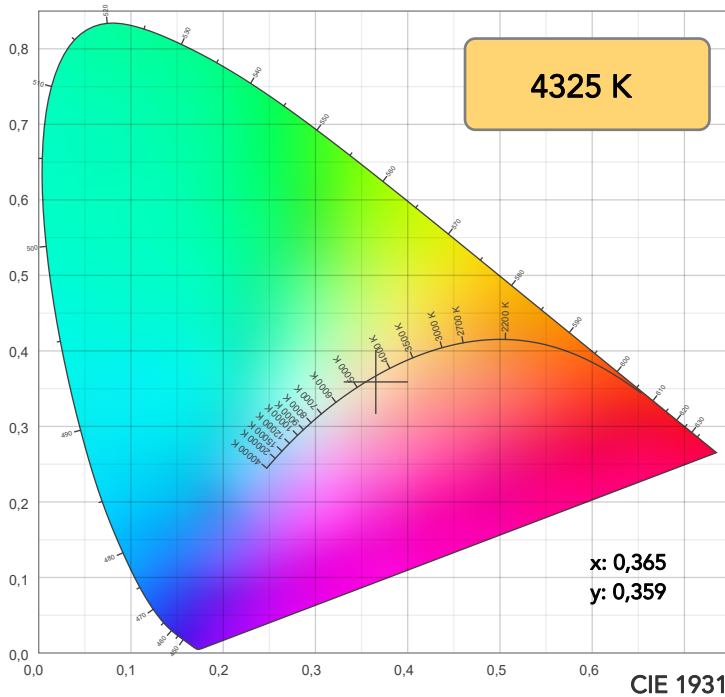
Field angle 10%: 22,3°

Cut off angle 2.5%: 45,3°

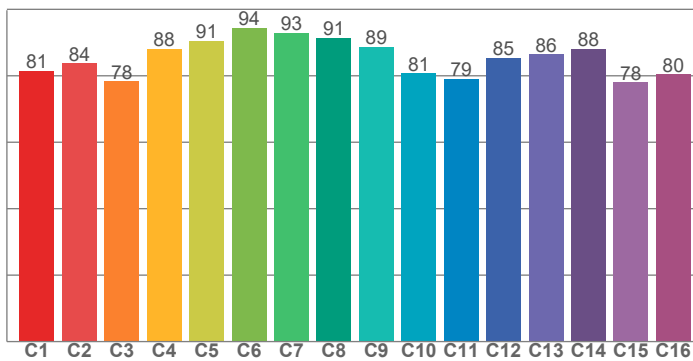
Spectra



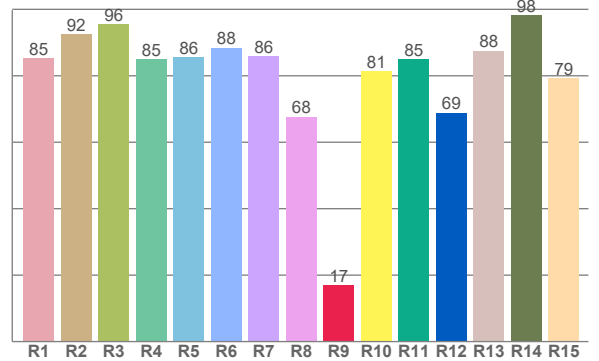
COLOR DETAILS



TM30: 85,2



CRI: 85,7 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
85,2	92,4	95,6	85,0	85,6	88,4	85,9	67,7	16,9	81,4	85,0	68,9	87,5	98,2	79,3

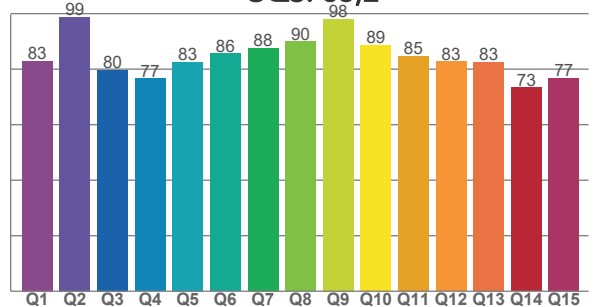
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81,4	83,7	78,3	88,2	90,5	94,4	92,9	91,4	88,7	80,8	79,2	85,3	86,4	88,1	78,0	80,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
82,9	98,7	79,7	76,6	82,5	85,7	87,7	89,9	98,0	88,8	84,7	82,8	82,6	73,4	76,8

CQS: 83,2



COLOR PARAMETERS

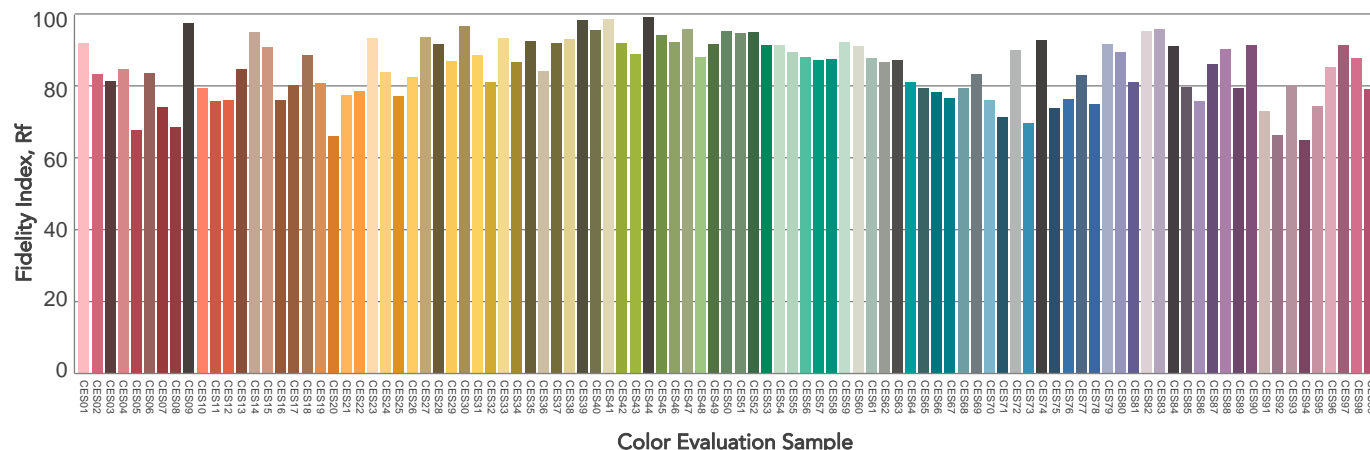
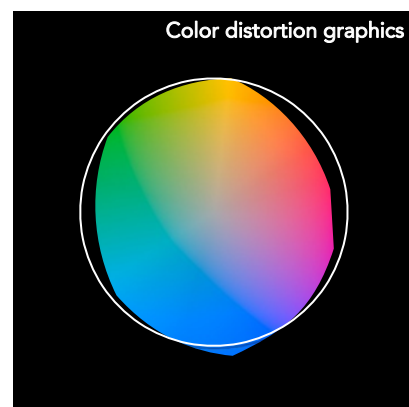
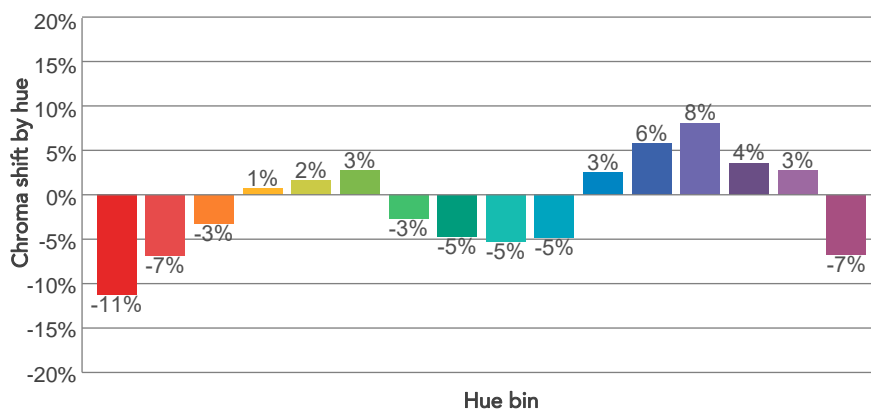
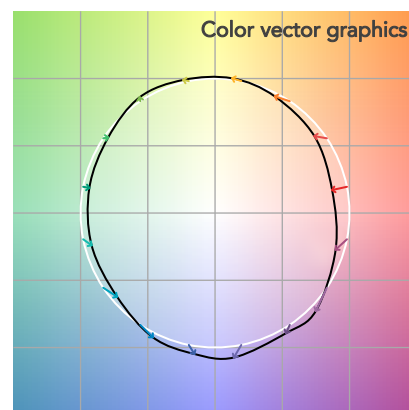
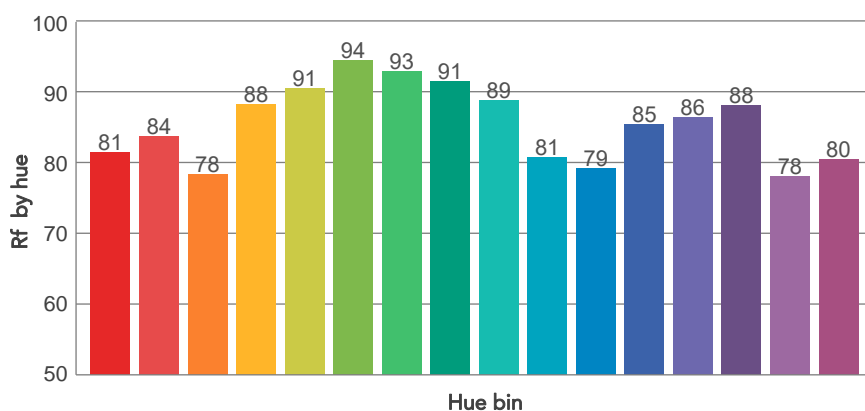
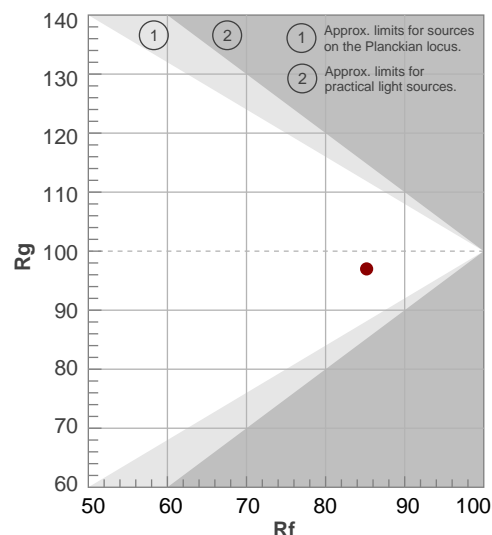
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4325 K	85,7	16,9	85,2	97,0	83,2	70	0,365	0,359	-0,0039

TM30 DETAILS

Rf 85,2
Fidelity index Rf

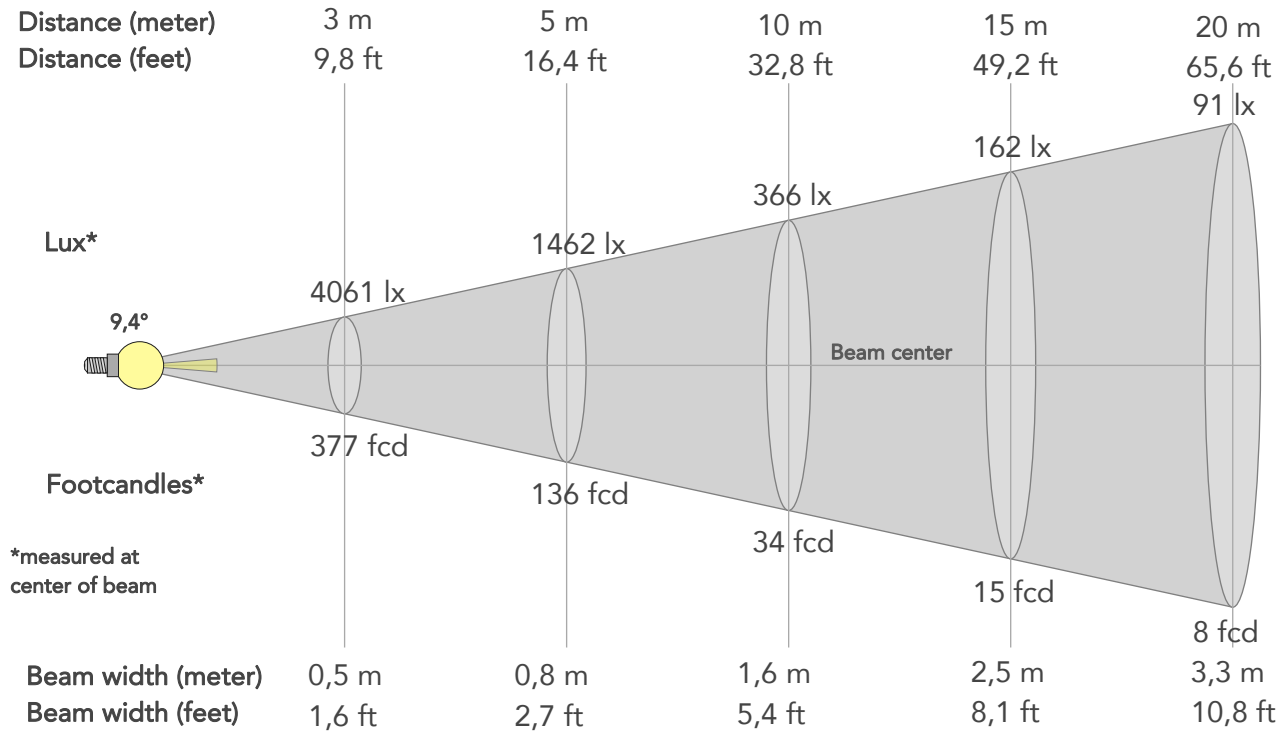
Rg 97,0
Gammut index

		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	81	-11%	0%
2	84	-7%	7%
3	78	-3%	11%
4	88	1%	7%
5	91	2%	4%
6	94	3%	-1%
7	93	-3%	-3%
8	91	-5%	0%
9	89	-5%	6%
10	81	-5%	11%
11	79	3%	13%
12	85	6%	5%
13	86	8%	-7%
14	88	4%	-6%
15	78	3%	-19%
16	80	-7%	-9%



BEAM DETAILS

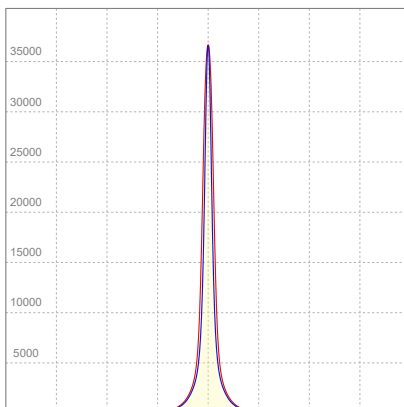
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
9,4°	22,3°	45,3°	99,9%	97,5%



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	36552lx	9138lx	4061lx	2284lx	1462lx	650lx	366lx	162lx	91lx	58lx	41lx	23lx	15lx
Footcand.	3396fcd	849fcd	377fcd	212fcd	136fcd	60fcd	34fcd	15fcd	8fcd	5fcd	4fcd	2fcd	1fcd
Beam wid.	0,2m	0,3m	0,5m	0,7m	0,8m	1,2m	1,6m	2,5m	3,3m	4,1m	4,9m	6,6m	8,2m
Beam wid.	0,5ft	1,1ft	1,6ft	2,1ft	2,7ft	4ft	5,4ft	8,1ft	10,8ft	13,5ft	16,1ft	21,5ft	26,9ft

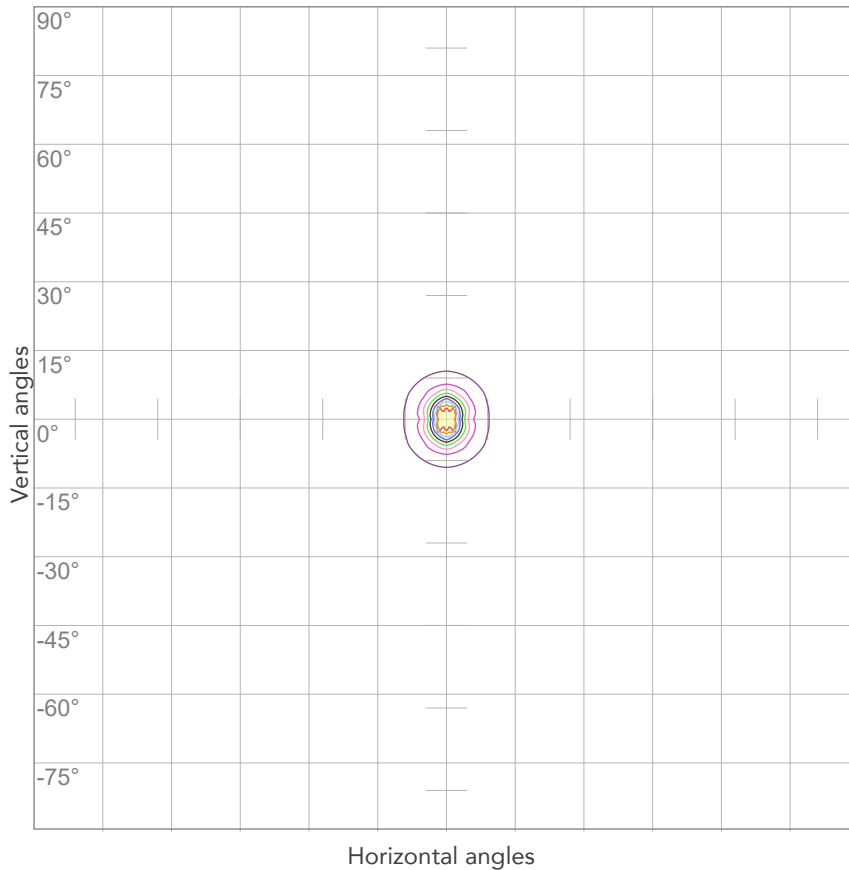
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,204A	42,9W	57lm/W

ISO CANDELA DIAGRAM



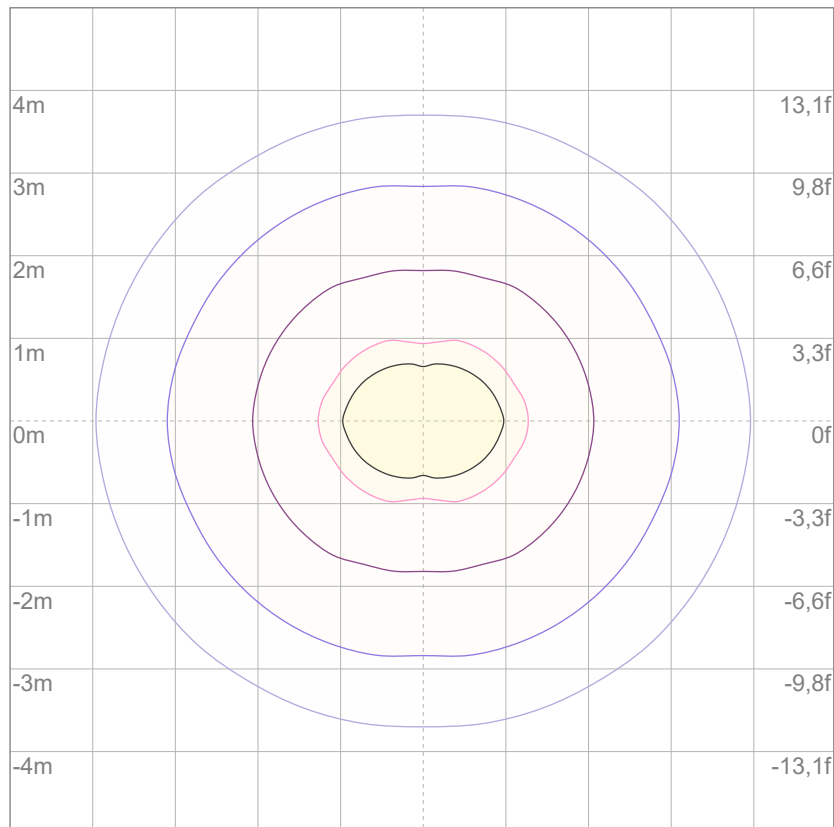
10%	3655 cd
20%	7310 cd
30%	10966 cd
40%	14621 cd
50%	18276 cd
60%	21931 cd
70%	25586 cd
80%	29242 cd

Conditions:

Number of c-planes: 4

Candela at center: 36552 cd

ISO LUX DIAGRAM



3%	11,0 lx
5%	18,3 lx
10%	36,6 lx
30%	110 lx
50%	183 lx

Conditions:

Number of c-planes: 4

Lux at center: 366 lx

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

Total lumen output:

2343 lm

Peak candela output:

6495 cd

Light quality:

CRI: 85,9

Color temperature:

4345 K



PRODUCT NAME:

ARCSHINEM9VW

MEASURAMENT CONDITIONS:

Beam angle:

8° + Filter 20°

Target:

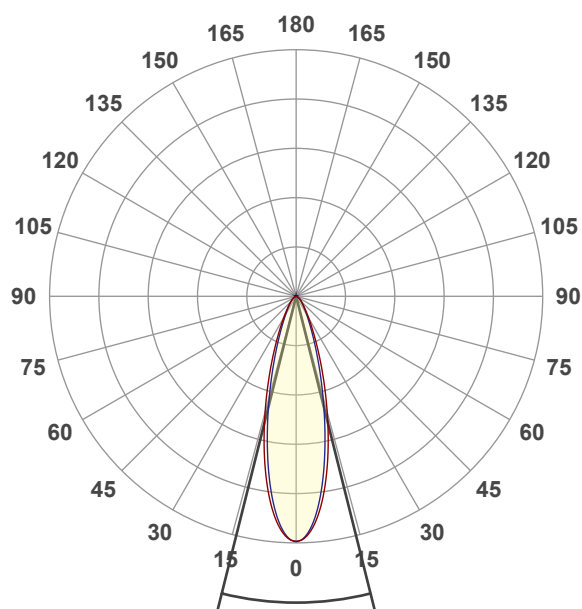
Full on

Operator:

Paolo Carvone

Date and time:

08/09/2022 17:59:20

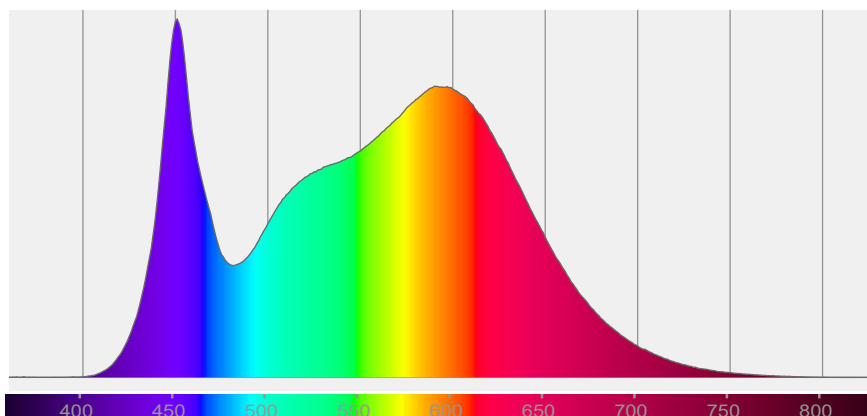


Beam angle 50%: 28,1°

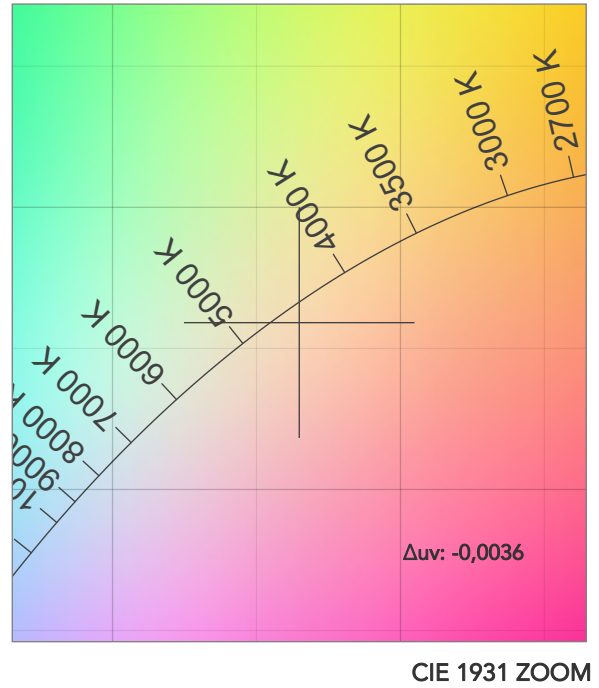
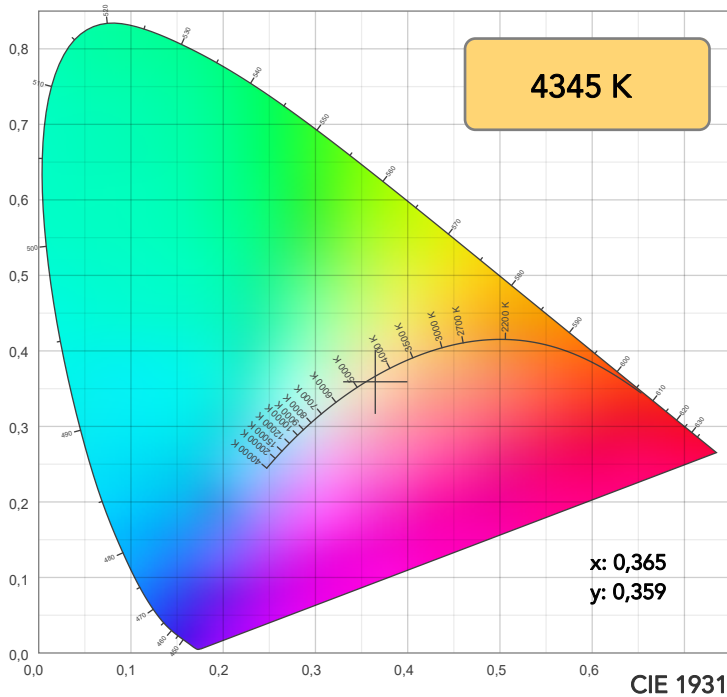
Field angle 10%: 58,5°

Cut off angle 2.5%: 94,5°

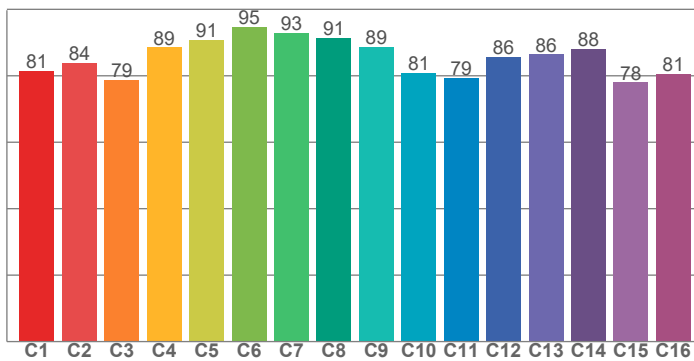
Spectra



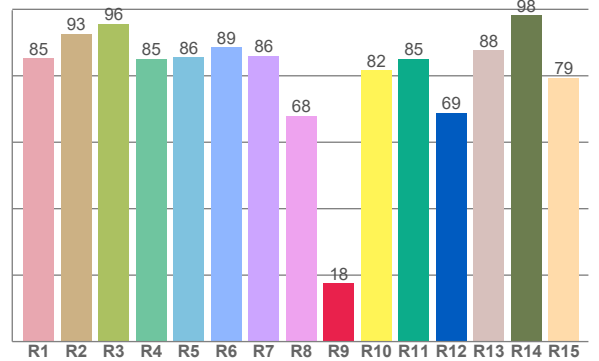
COLOR DETAILS



TM30: 85,4



CRI: 85,9 (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
85,3	92,6	95,7	85,1	85,7	88,6	86,1	68,0	17,5	81,8	85,1	68,9	87,7	98,3	79,4

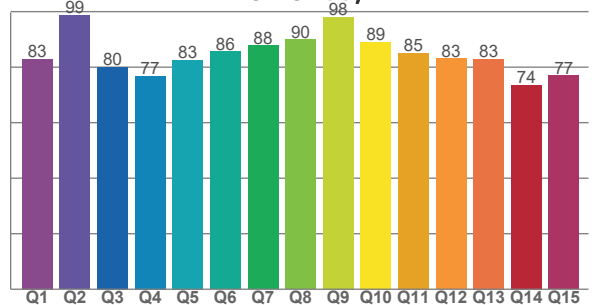
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81,5	83,9	78,7	88,5	90,8	94,6	92,9	91,4	88,6	80,9	79,4	85,7	86,5	88,2	78,1	80,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
82,9	98,7	80,1	76,9	82,6	85,7	87,8	90,0	98,1	89,1	85,1	83,1	82,9	73,6	77,0

CQS: 83,4



COLOR PARAMETERS

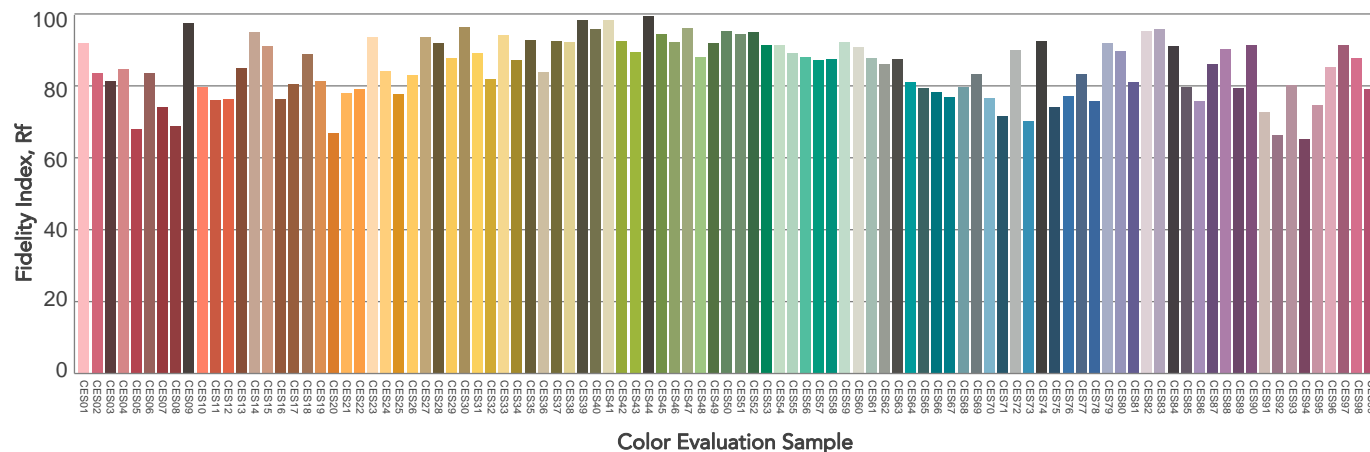
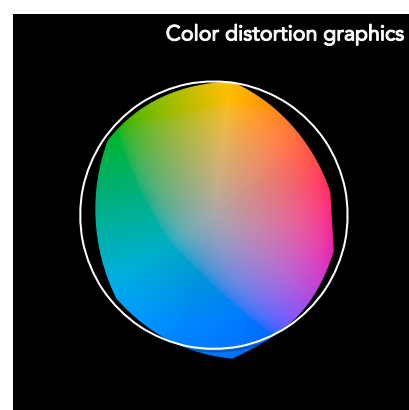
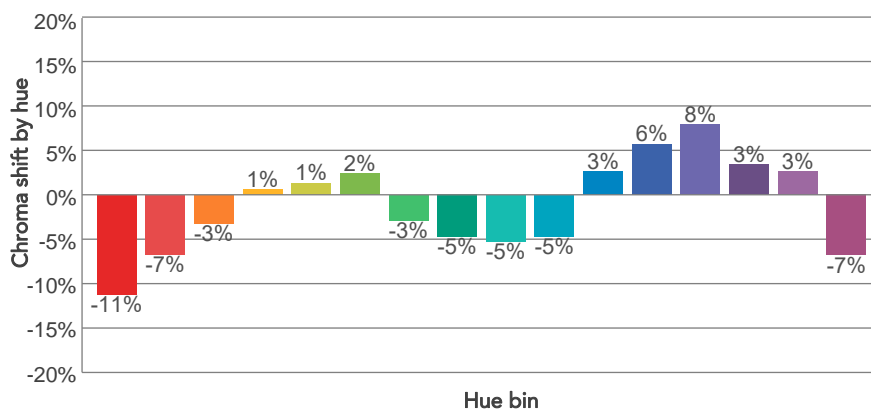
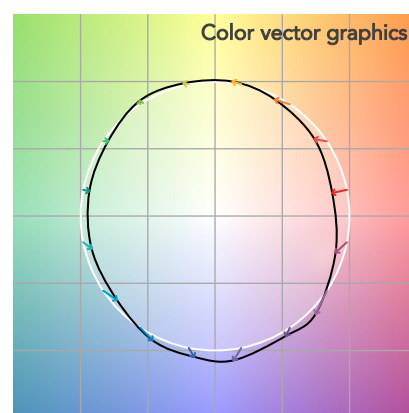
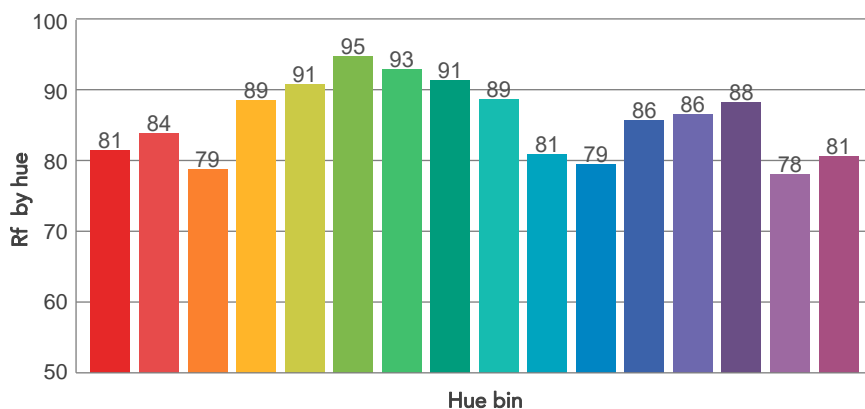
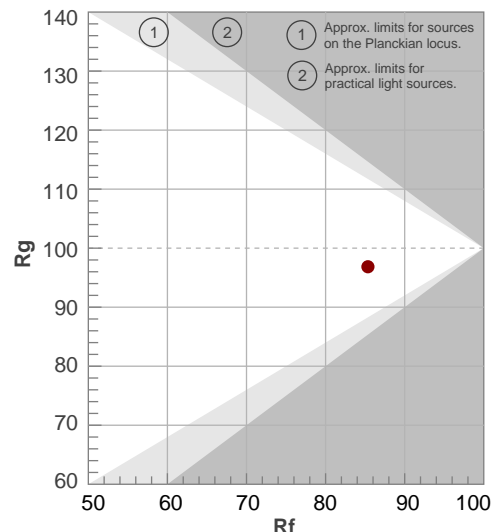
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4345 K	85,9	17,5	85,4	96,8	83,4	71	0,365	0,359	-0,0036

TM30 DETAILS

Rf 85,4
Fidelity index Rf

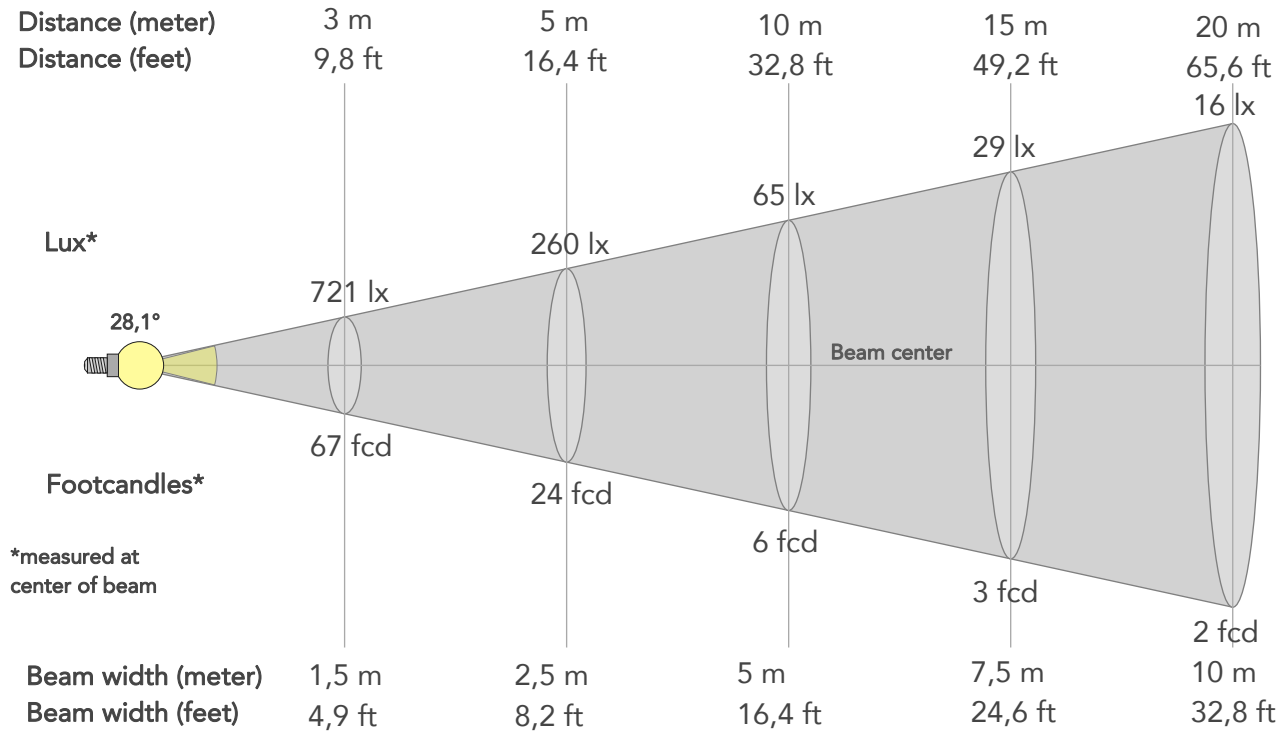
Rg 96,8
Gammut index

		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	81	-11%	0%
2	84	-7%	6%
3	79	-3%	11%
4	89	1%	7%
5	91	1%	4%
6	95	2%	-1%
7	93	-3%	-2%
8	91	-5%	0%
9	89	-5%	6%
10	81	-5%	11%
11	79	3%	13%
12	86	6%	5%
13	86	8%	-7%
14	88	3%	-6%
15	78	3%	-19%
16	81	-7%	-9%



BEAM DETAILS

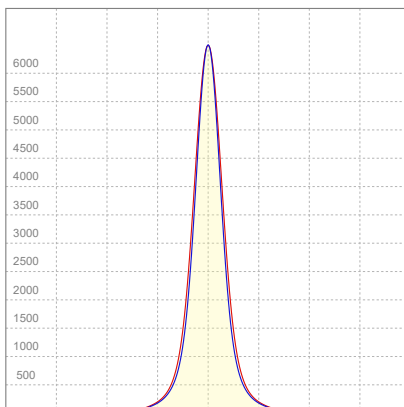
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
28,1°	58,5°	94,5°	98,0%	91,5%



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	6492lx	1623lx	721lx	406lx	260lx	115lx	65lx	29lx	16lx	10lx	7lx	4lx	3lx
Footcand.	603fcd	151fcd	67fcd	38fcd	24fcd	11fcd	6fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,5m	2m	2,5m	3,8m	5m	7,5m	10m	12,5m	15m	20m	25m
Beam wid.	1,7ft	3,3ft	4,9ft	6,6ft	8,2ft	12,3ft	16,4ft	24,6ft	32,8ft	41,1ft	49,3ft	65,7ft	82,1ft

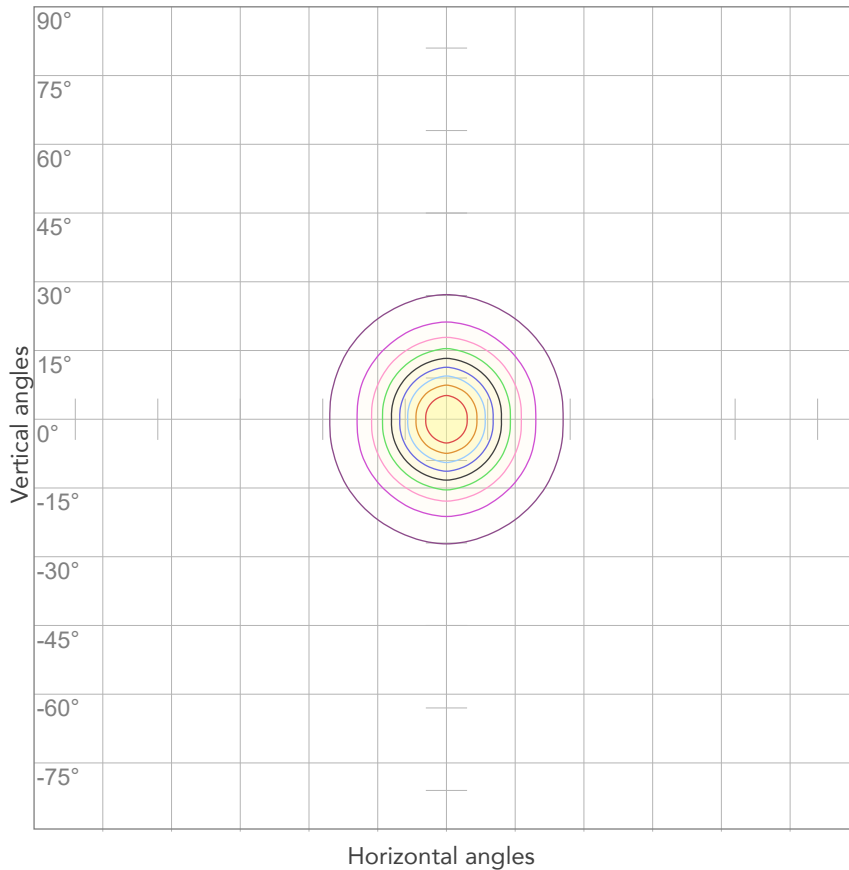
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,203A	42,6W	55lm/W

ISO CANDELA DIAGRAM



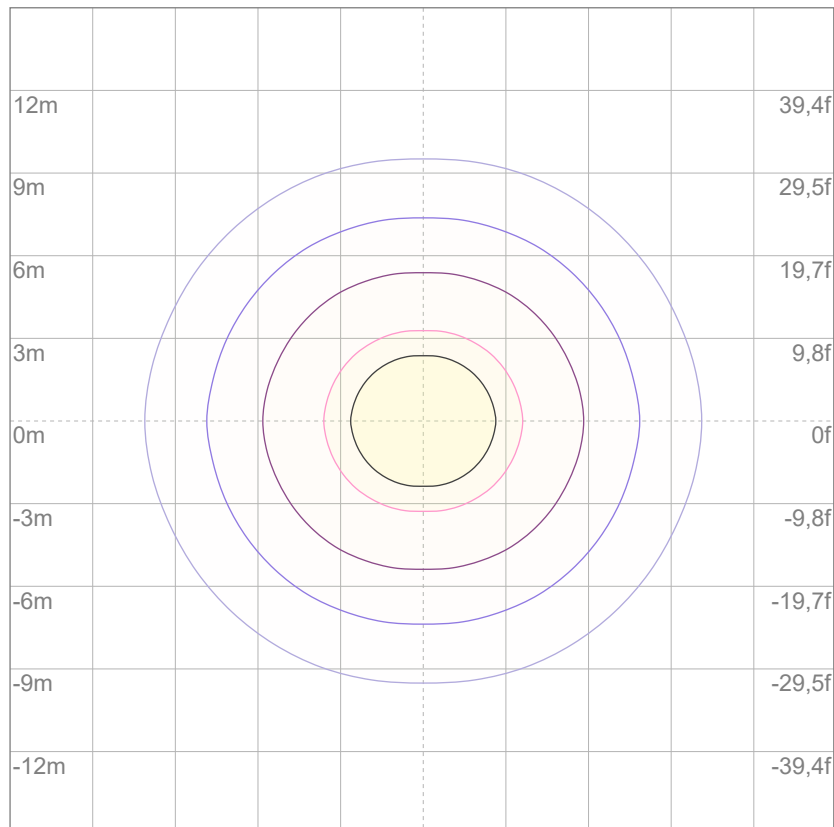
10%	649 cd
20%	1298 cd
30%	1948 cd
40%	2597 cd
50%	3246 cd
60%	3895 cd
70%	4544 cd
80%	5194 cd

Conditions:

Number of c-planes: 4

Candela at center: 6492 cd

ISO LUX DIAGRAM



3%	1,95 lx
5%	3,25 lx
10%	6,49 lx
30%	19,5 lx
50%	32,5 lx

Conditions:

Number of c-planes: 4

Lux at center: 64,9 lx

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

Total lumen output:

2314 lm

Peak candela output:

2537 cd

Light quality:

CRI: 86,0

Color temperature:

4362 K



PRODUCT NAME:

ARCSHINEM9VW

MEASURAMENT CONDITIONS:

Beam angle:

8° + Filter 40°

Target:

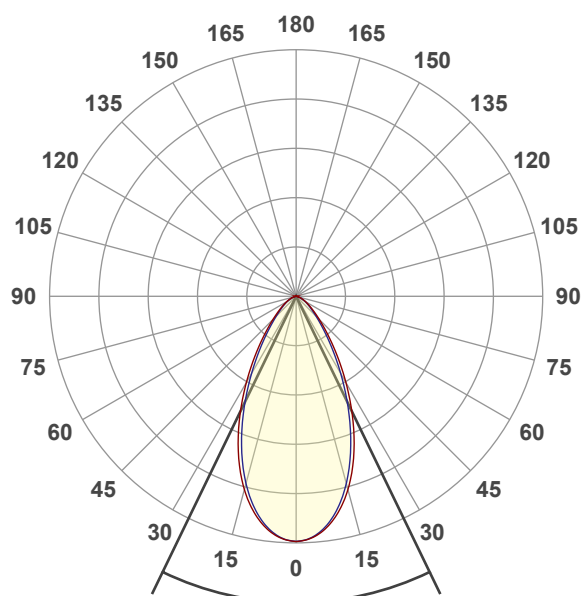
Full on

Operator:

Paolo Carvone

Date and time:

08/09/2022 18:01:58

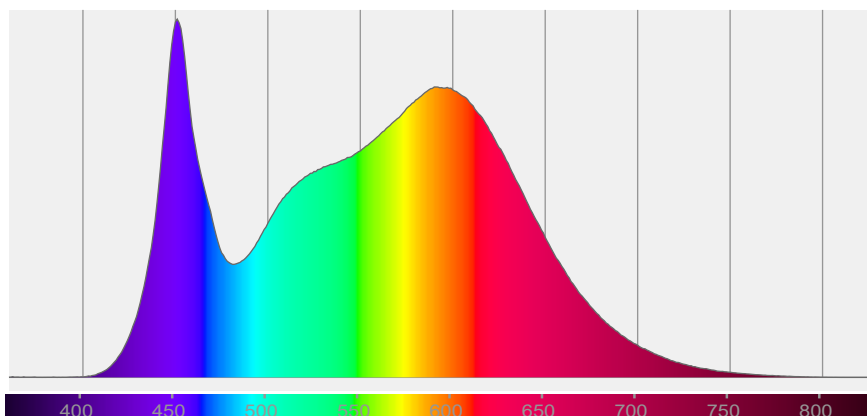


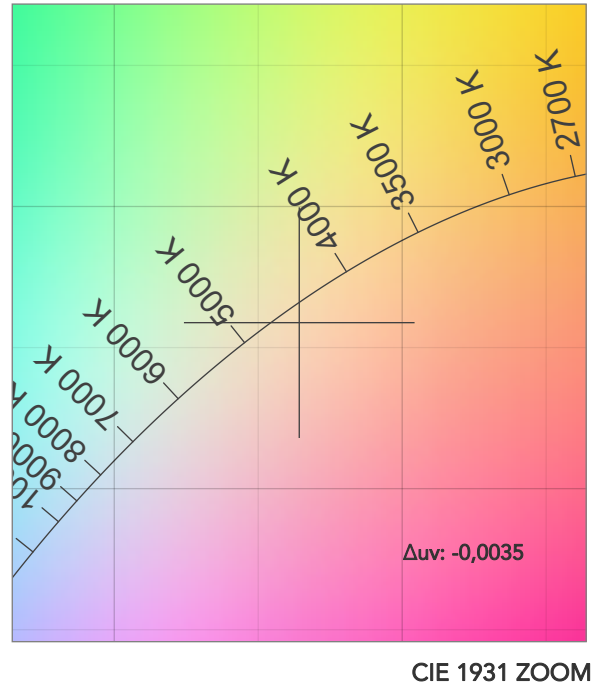
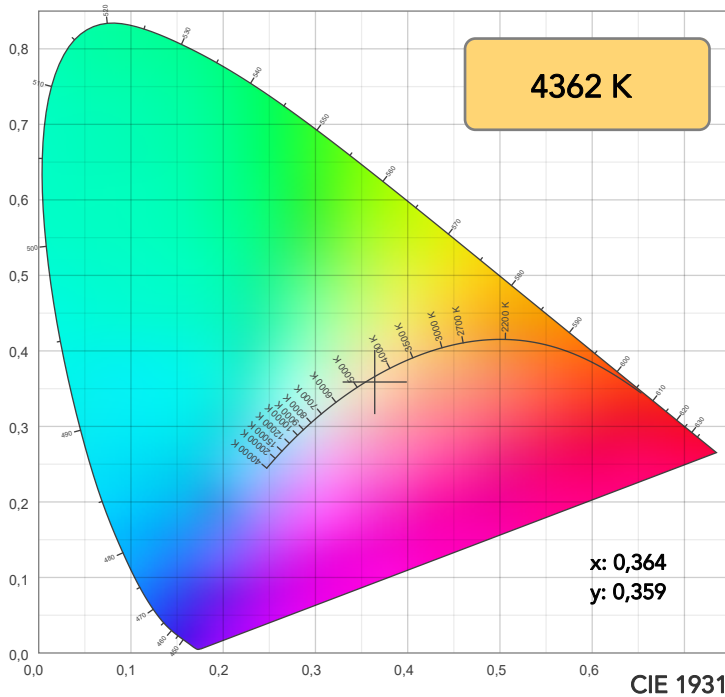
Beam angle 50%: 51,7°

Field angle 10%: 95,9°

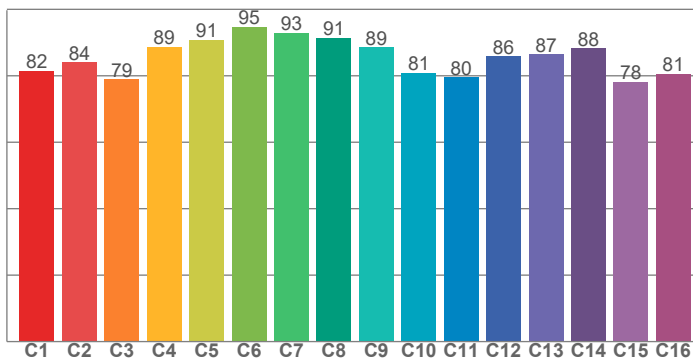
Cut off angle 2.5%: 132,9°

Spectra

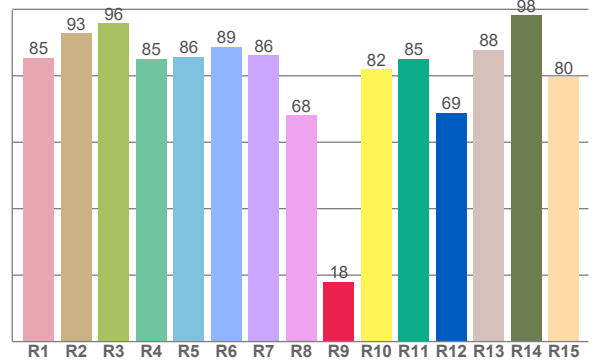




TM30: 85,4



CRI: 86,0 (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
85,5	92,7	95,7	85,2	85,8	88,7	86,2	68,2	18,0	82,0	85,2	68,9	87,8	98,3	79,6

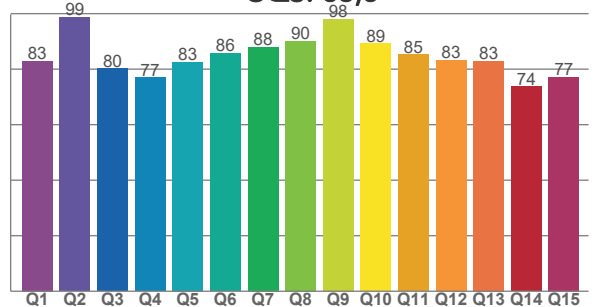
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81,6	84,0	78,9	88,6	90,8	94,7	92,9	91,4	88,6	80,9	79,6	85,8	86,5	88,2	78,1	80,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
83,0	98,7	80,3	77,0	82,6	85,7	87,9	90,1	98,1	89,3	85,3	83,3	83,0	73,8	77,1

CQS: 83,5



COLOR PARAMETERS

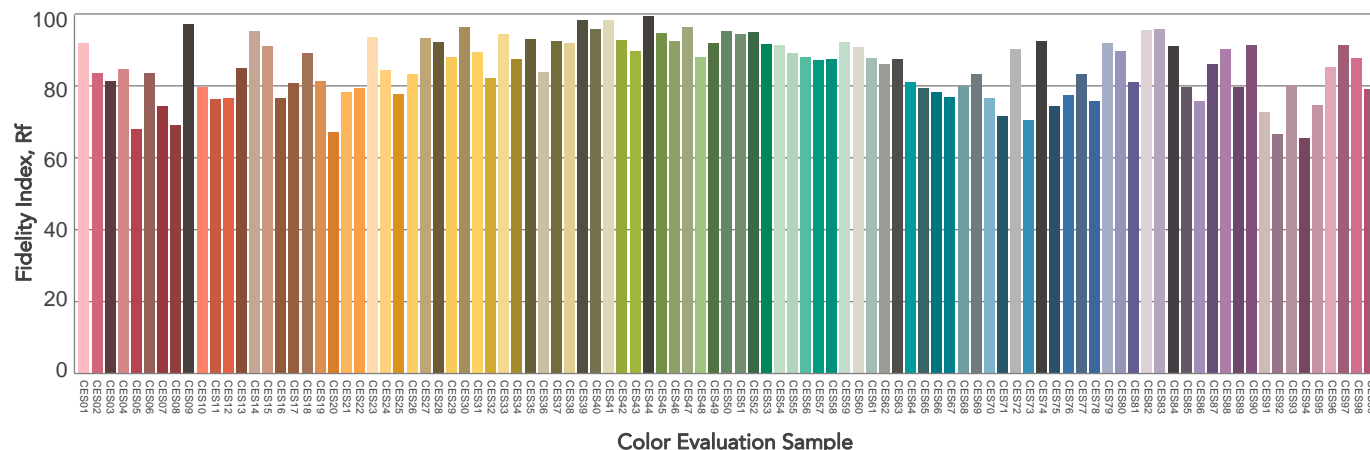
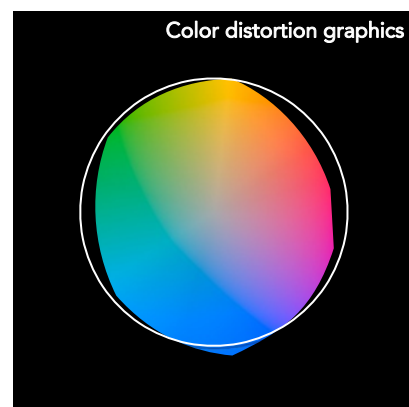
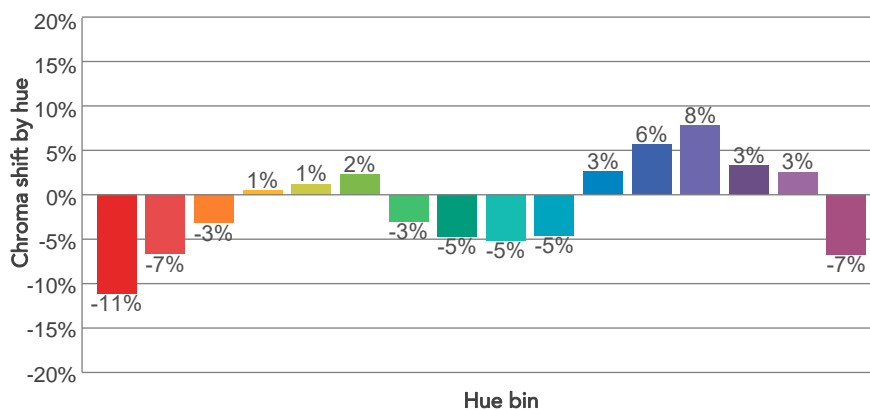
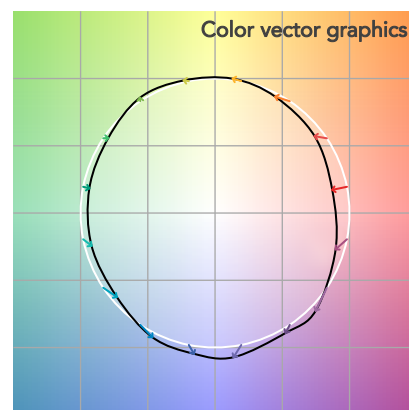
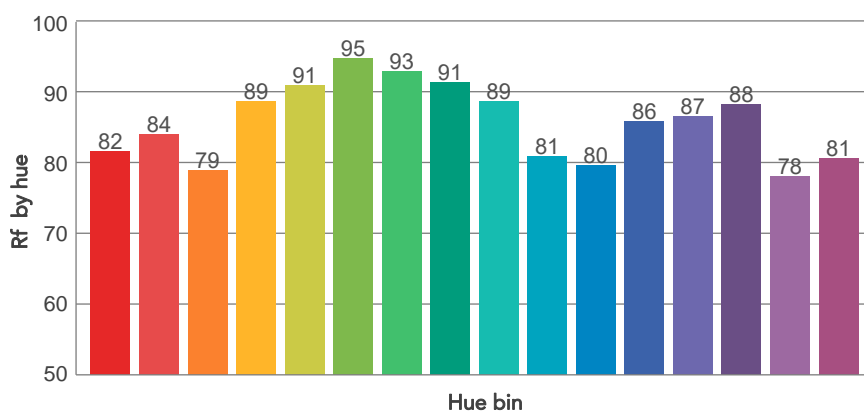
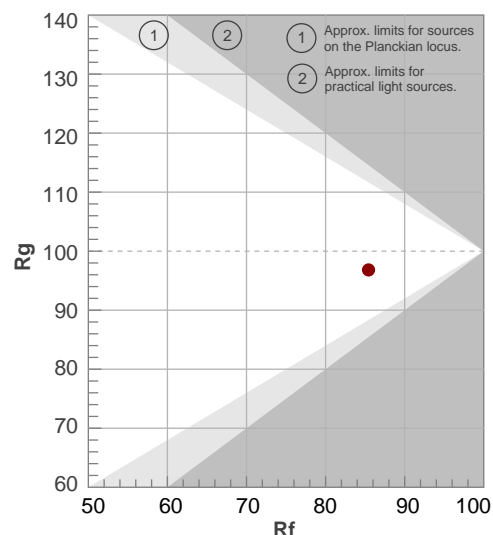
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4362 K	86,0	18,0	85,4	96,8	83,5	71	0,364	0,359	-0,0035

TM30 DETAILS

Rf 85,4
Fidelity index Rf

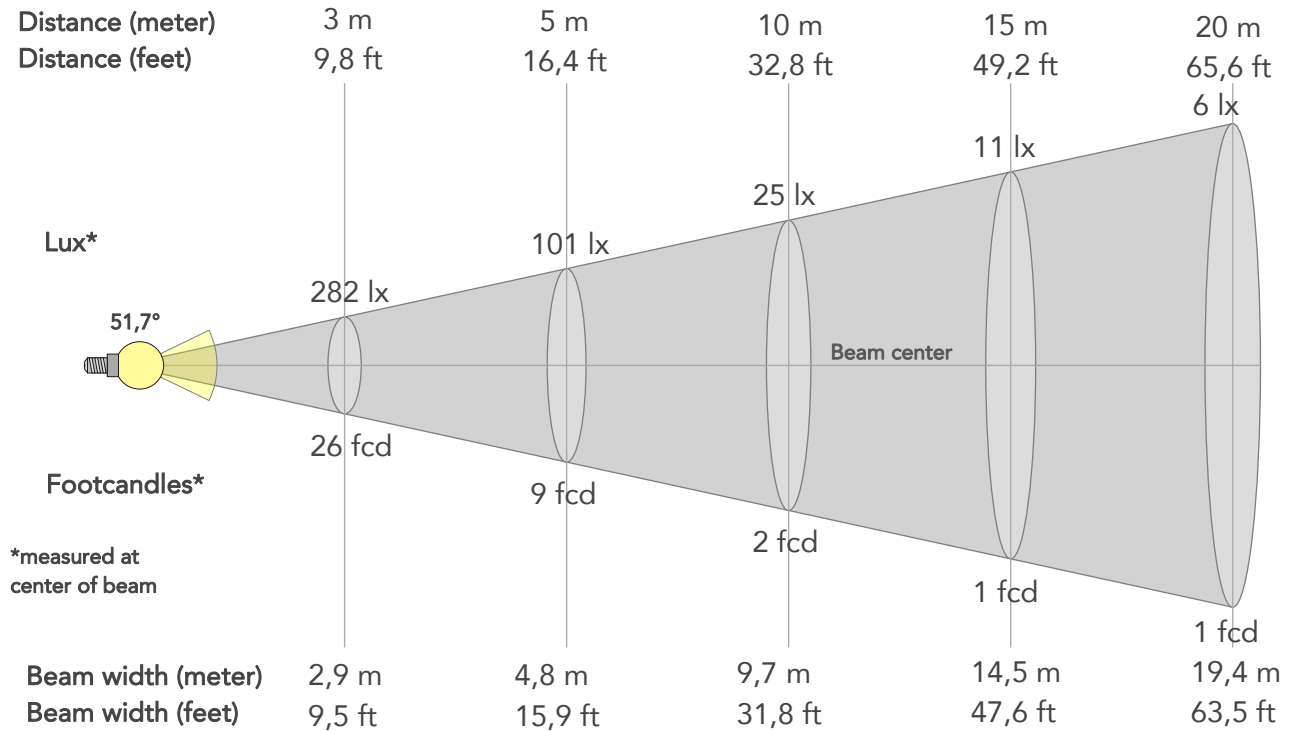
Rg 96,8
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	82	-11%	0%
2	84	-7%	6%
3	79	-3%	11%
4	89	1%	7%
5	91	1%	4%
6	95	2%	-1%
7	93	-3%	-2%
8	91	-5%	0%
9	89	-5%	6%
10	81	-5%	11%
11	80	3%	13%
12	86	6%	5%
13	87	8%	-7%
14	88	3%	-6%
15	78	3%	-19%
16	81	-7%	-9%



BEAM DETAILS

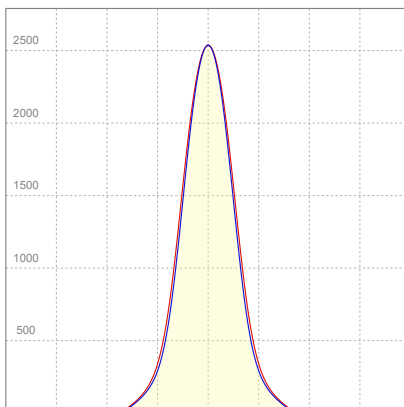
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
51,7°	95,9°	132,9°	96,0%	85,3%



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	2536lx	634lx	282lx	159lx	101lx	45lx	25lx	11lx	6lx	4lx	3lx	2lx	1lx
Footcand.	236fcd	59fcd	26fcd	15fcd	9fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	1,9m	2,9m	3,9m	4,8m	7,3m	9,7m	14,5m	19,4m	24,2m	29,1m	38,7m	48,4m
Beam wid.	3,2ft	6,4ft	9,5ft	12,7ft	15,9ft	23,8ft	31,8ft	47,6ft	63,5ft	79,4ft	95,3ft	127ft	158,8ft

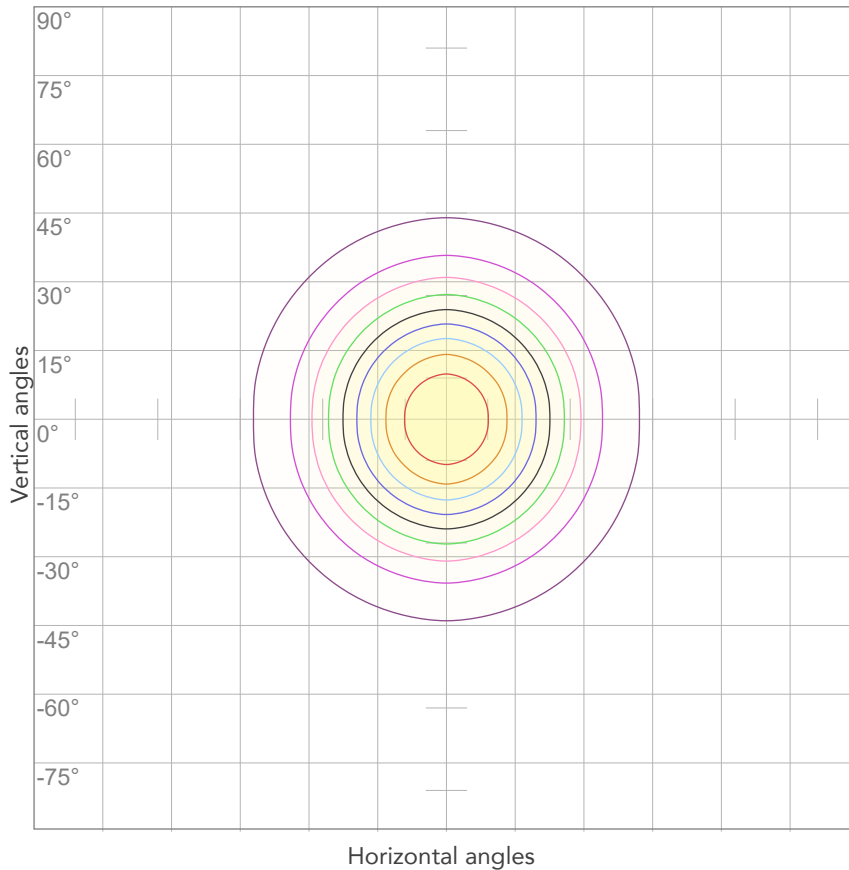
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,203A	42,5W	54lm/W

ISO CANDELA DIAGRAM



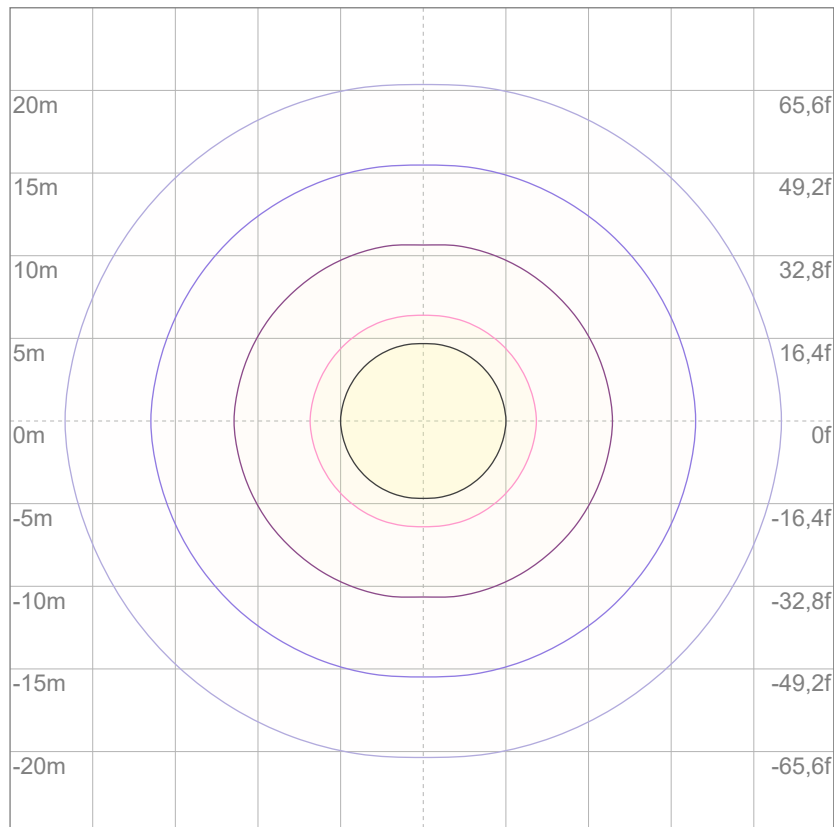
10%	254 cd
20%	507 cd
30%	761 cd
40%	1014 cd
50%	1268 cd
60%	1522 cd
70%	1775 cd
80%	2029 cd

Conditions:

Number of c-planes: 4

Candela at center: 2536 cd

ISO LUX DIAGRAM



3%	0,761 lx
5%	1,27 lx
10%	2,54 lx
30%	7,61 lx
50%	12,7 lx

Conditions:

Number of c-planes: 4

Lux at center: 25,4 lx

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

Total lumen output:

2282 lm

Peak candela output:

1996 cd

Light quality:

CRI: 86,0

Color temperature:

4368 K



PRODUCT NAME:

ARCSHINEM9VW

MEASUREMENT CONDITIONS:

Beam angle:

8° + Filter 60°

Target:

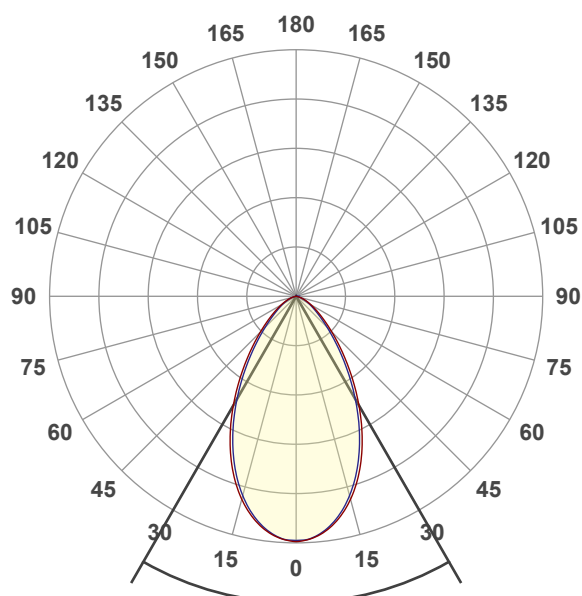
Full on

Operator:

Paolo Carvone

Date and time:

08/09/2022 18:04:40

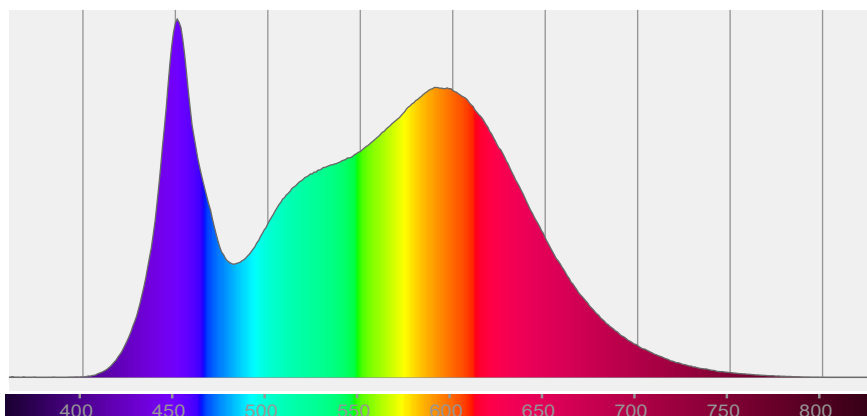


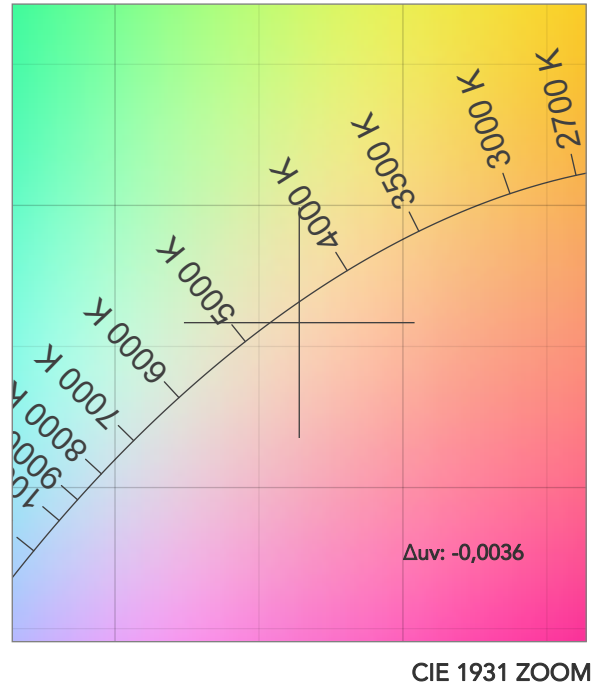
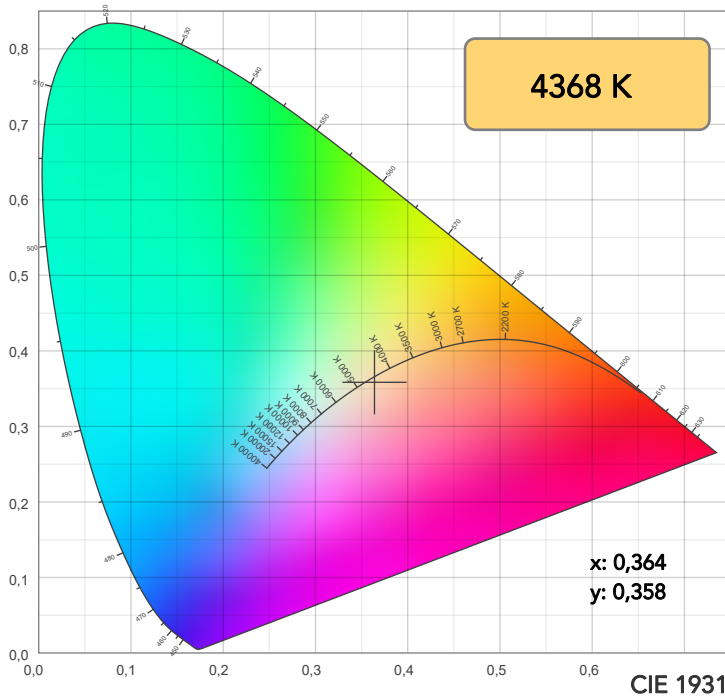
Beam angle 50%: 59,8°

Field angle 10%: 108,3°

Cut off angle 2.5%: 141°

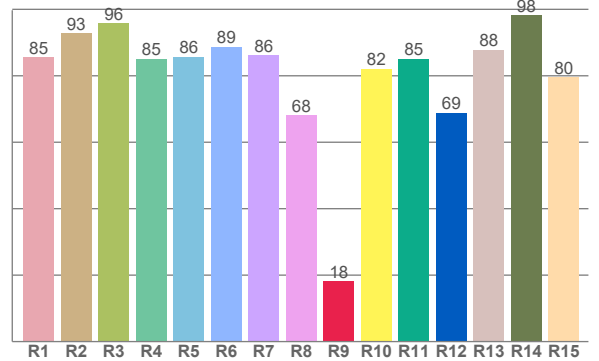
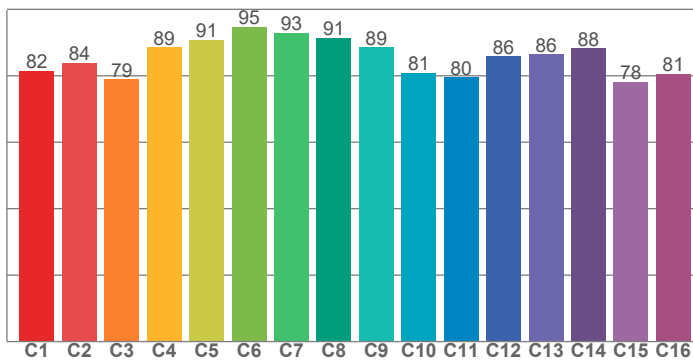
Spectra





TM30: 85,4

CRI: 86,0 (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
85,5	92,8	95,7	85,1	85,8	88,7	86,1	68,2	18,1	82,1	85,1	68,9	87,8	98,3	79,6

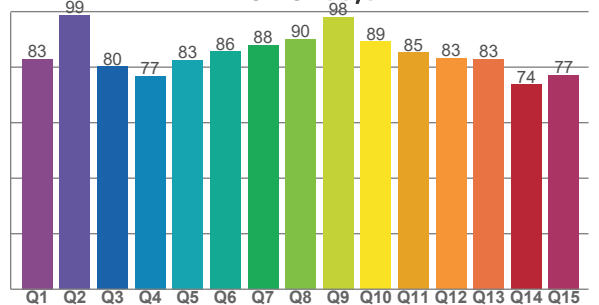
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81,5	83,9	78,9	88,6	90,8	94,7	92,9	91,3	88,5	80,9	79,5	85,8	86,5	88,3	78,1	80,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
83,0	98,7	80,2	76,9	82,5	85,6	87,9	90,0	98,1	89,2	85,2	83,2	82,9	73,7	77,1

CQS: 83,5



COLOR PARAMETERS

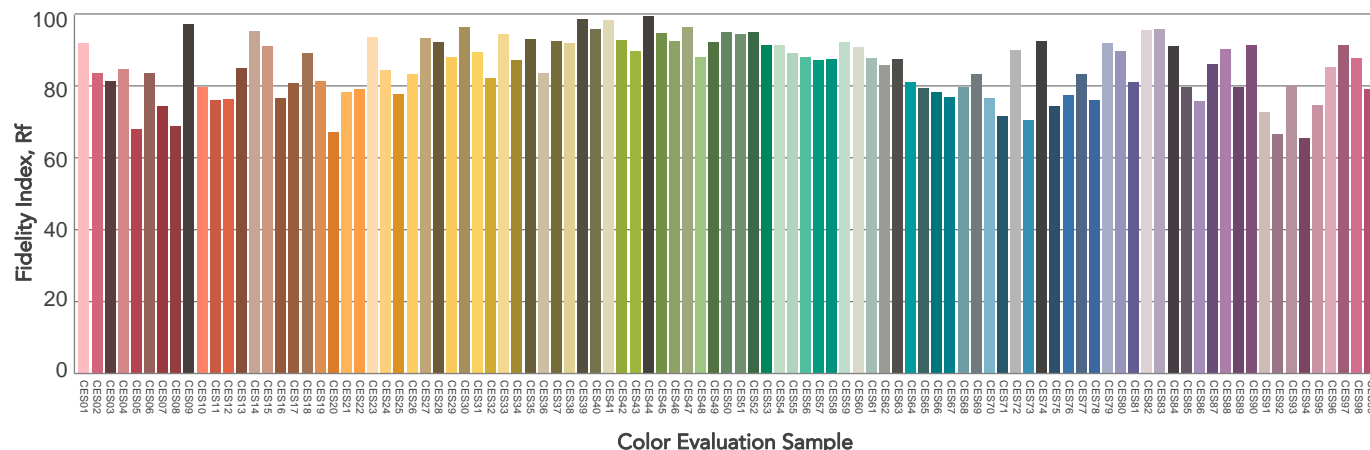
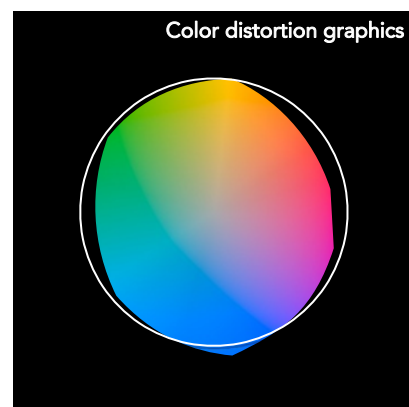
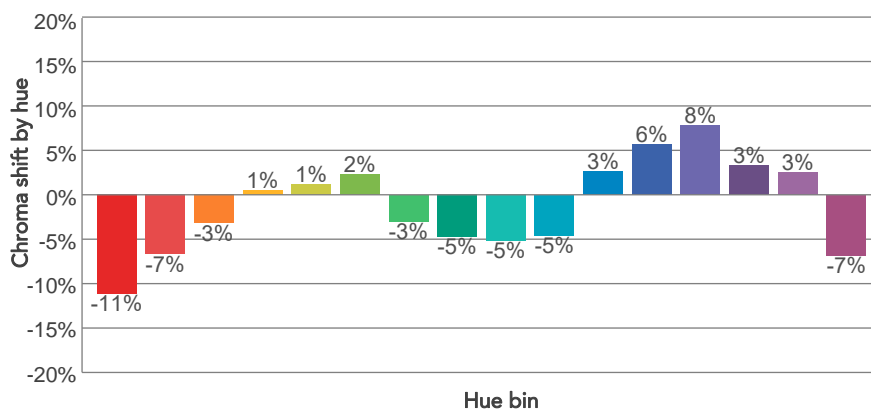
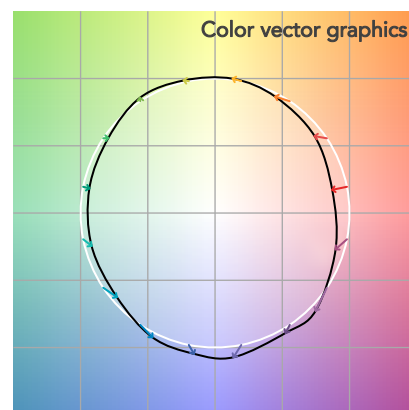
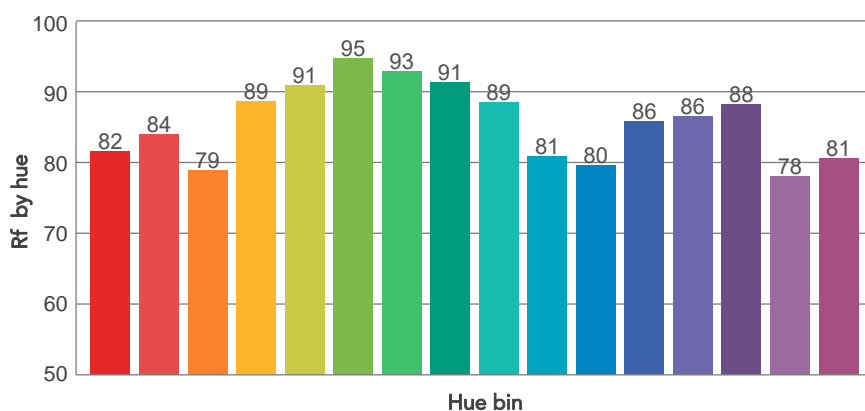
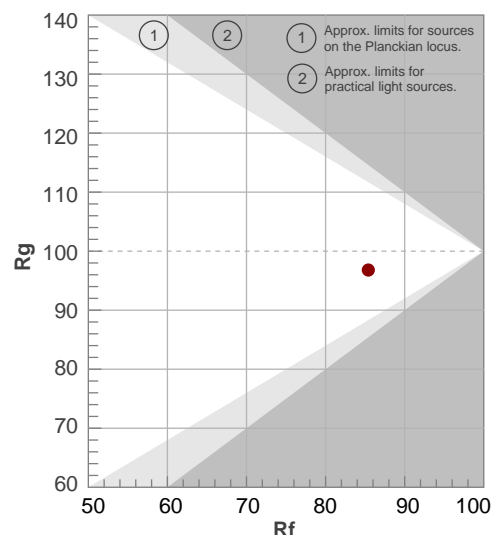
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4368 K	86,0	18,1	85,4	96,8	83,5	71	0,364	0,358	-0,0036

TM30 DETAILS

Rf 85,4
Fidelity index Rf

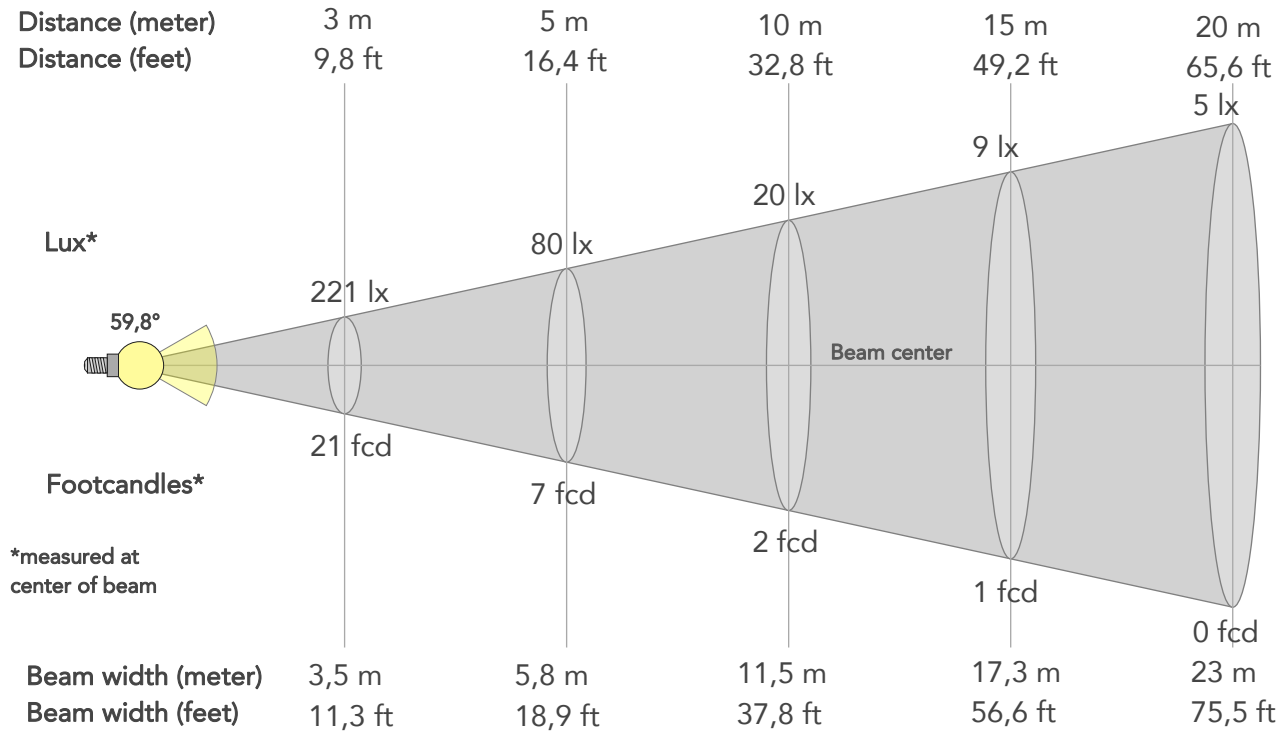
Rg 96,8
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	82	-11%	0%
2	84	-7%	6%
3	79	-3%	11%
4	89	1%	7%
5	91	1%	4%
6	95	2%	-1%
7	93	-3%	-2%
8	91	-5%	0%
9	89	-5%	6%
10	81	-5%	11%
11	80	3%	13%
12	86	6%	5%
13	86	8%	-7%
14	88	3%	-6%
15	78	3%	-19%
16	81	-7%	-9%



BEAM DETAILS

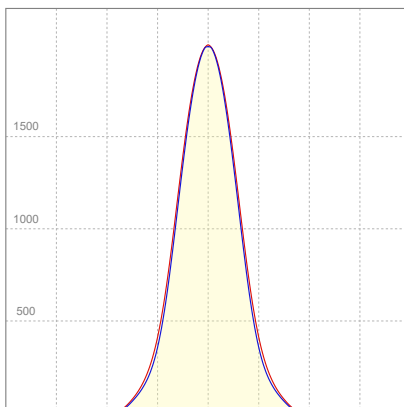
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
59,8°	108,3°	141°	94,9%	81,7%



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	1992lx	498lx	221lx	124lx	80lx	35lx	20lx	9lx	5lx	3lx	2lx	1lx	1lx
Footcand.	185fcd	46fcd	21fcd	12fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,2m	2,3m	3,5m	4,6m	5,8m	8,6m	11,5m	17,3m	23m	28,8m	34,5m	46m	57,5m
Beam wid.	3,8ft	7,6ft	11,3ft	15,1ft	18,9ft	28,3ft	37,8ft	56,6ft	75,5ft	94,4ft	113,3ft	151ft	188,8ft

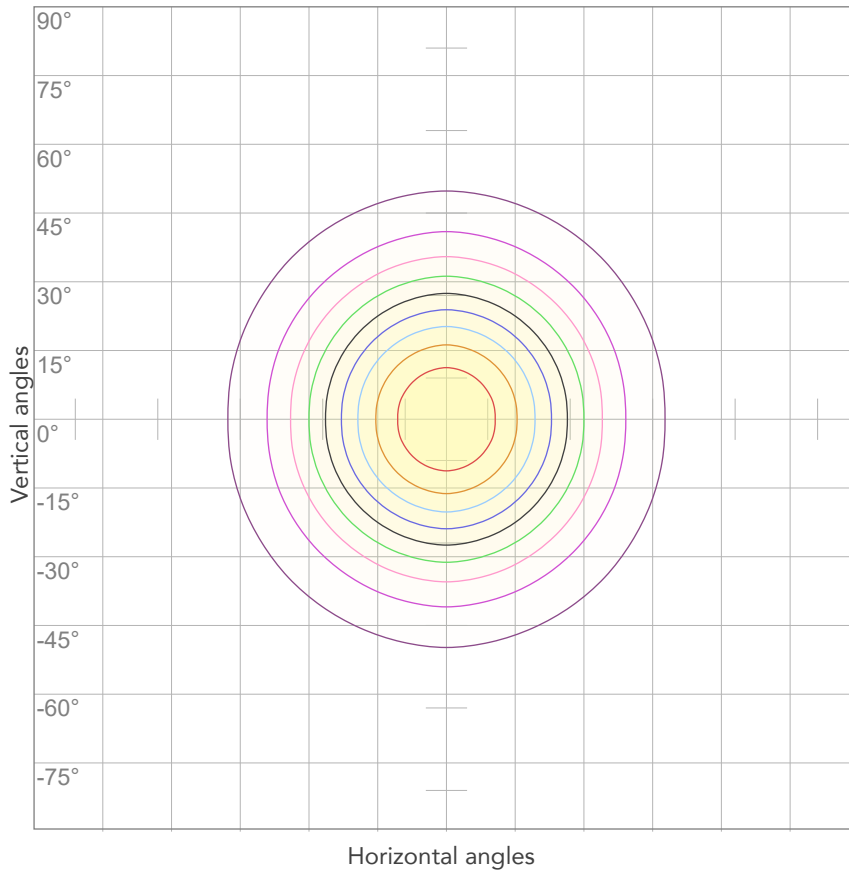
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,202A	42,4W	54lm/W

ISO CANDELA DIAGRAM



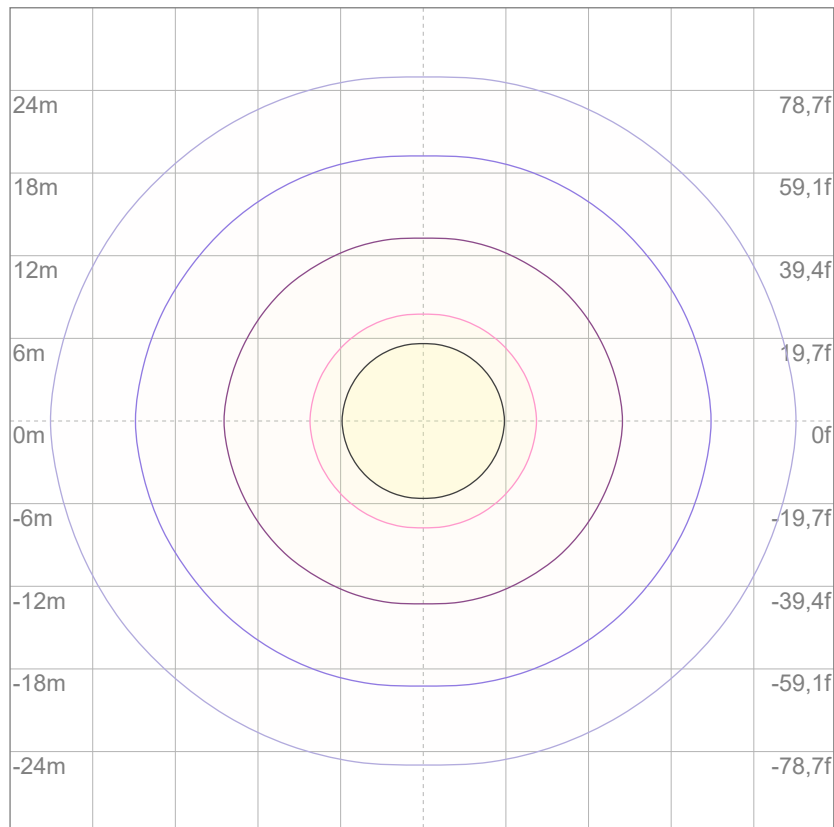
10%	199 cd
20%	398 cd
30%	598 cd
40%	797 cd
50%	996 cd
60%	1195 cd
70%	1394 cd
80%	1593 cd

Conditions:

Number of c-planes: 4

Candela at center: 1992 cd

ISO LUX DIAGRAM



3%	0,598 lx
5%	0,996 lx
10%	1,99 lx
30%	5,98 lx
50%	9,96 lx

Conditions:

Number of c-planes: 4

Lux at center: 19,9 lx

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

Total lumen output:

3371 lm

Peak candela output:

4593 cd

Light quality:

CRI: 86,2

Color temperature:

4399 K



PRODUCT NAME:

ARCSHINEM9VW

MEASURAMENT CONDITIONS:

Beam angle:

8° + Filter 10°x60°

Target:

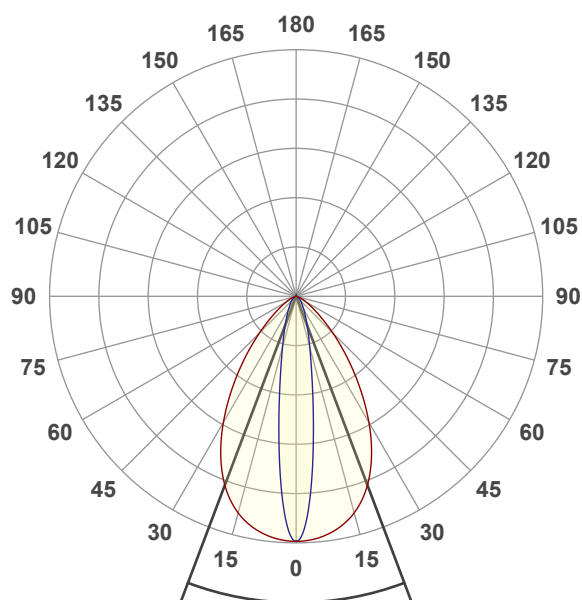
Full on

Operator:

Paolo Carvone

Date and time:

08/09/2022 18:11:06

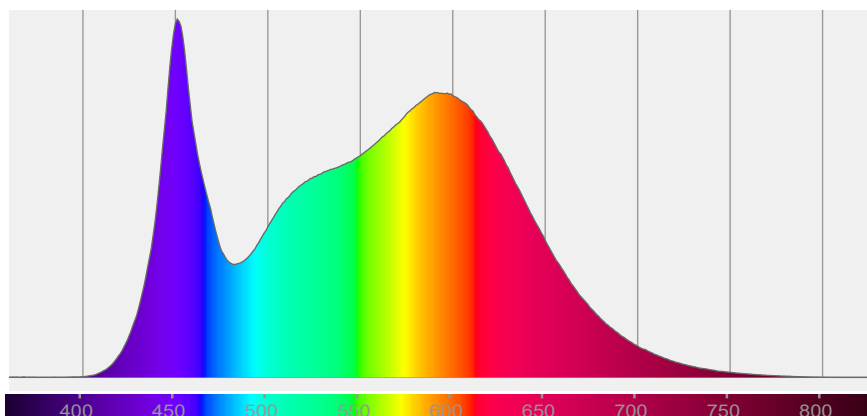


Beam angle 50%: 41,4°

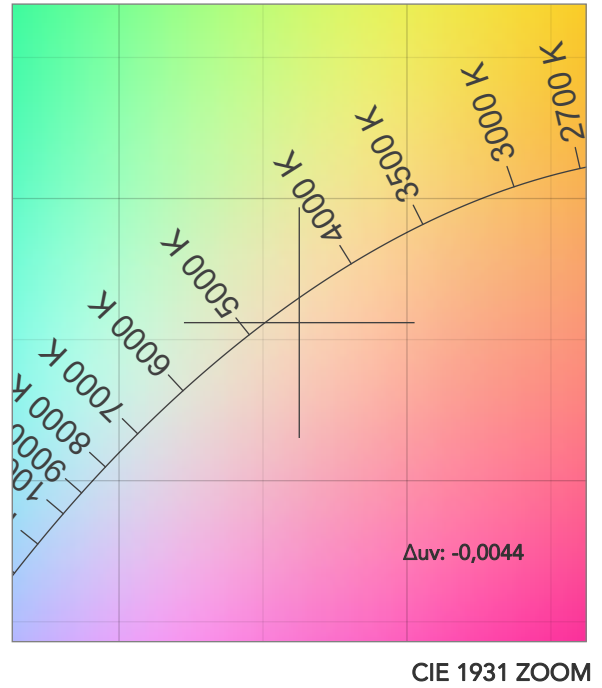
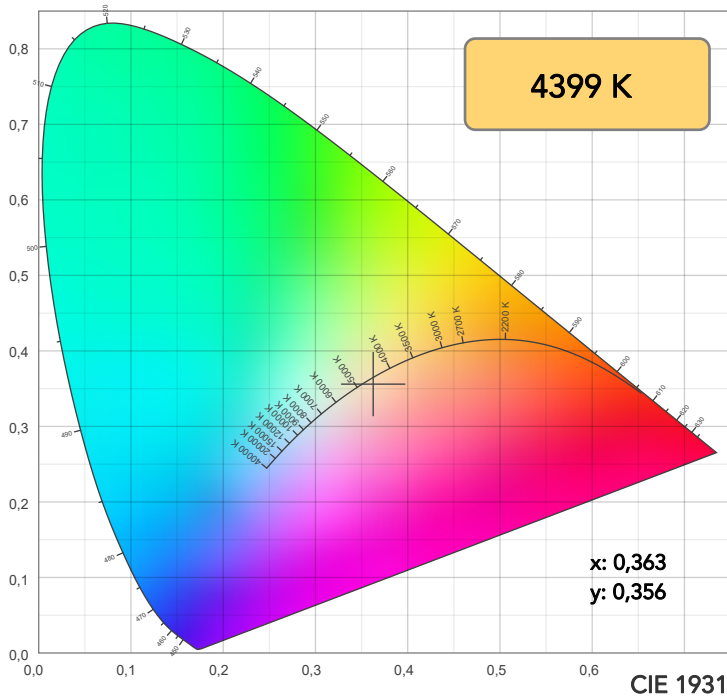
Field angle 10%: 76,4°

Cut off angle 2.5%: 111,7°

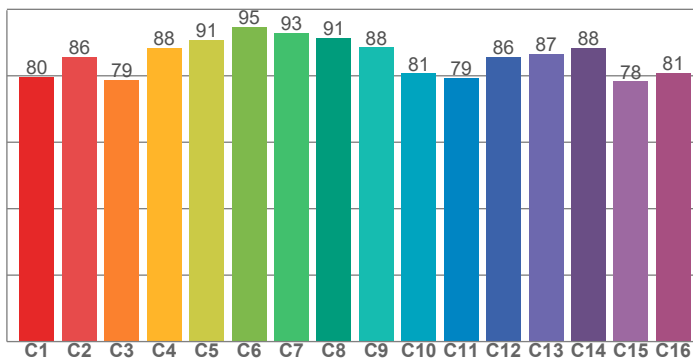
Spectra



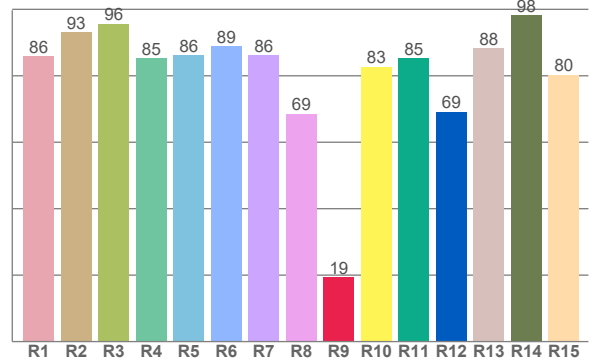
COLOR DETAILS



TM30: 85,4



CRI: 86,2 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
85,9	93,1	95,6	85,3	86,1	88,8	86,1	68,6	19,4	82,7	85,2	69,1	88,3	98,3	80,3

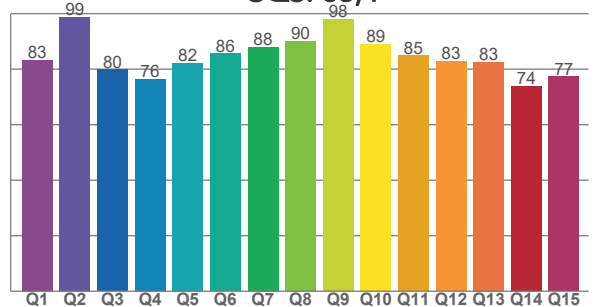
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79,7	85,8	78,7	88,4	90,7	94,7	92,9	91,4	88,5	80,7	79,4	85,7	86,6	88,5	78,3	80,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
83,2	98,7	79,9	76,4	82,3	85,6	88,0	90,1	98,0	89,0	84,8	82,8	82,6	74,0	77,4

CQS: 83,4



COLOR PARAMETERS

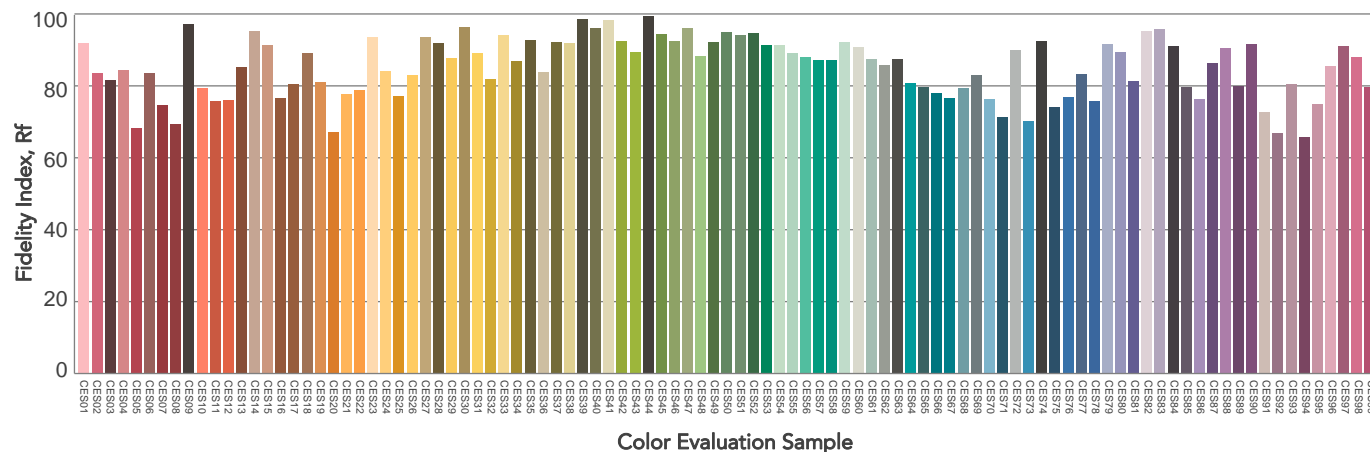
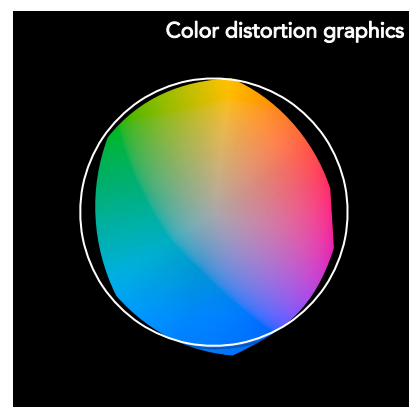
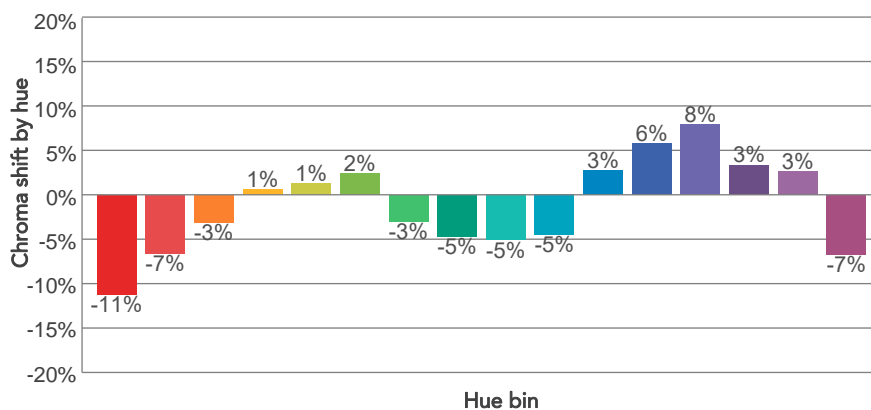
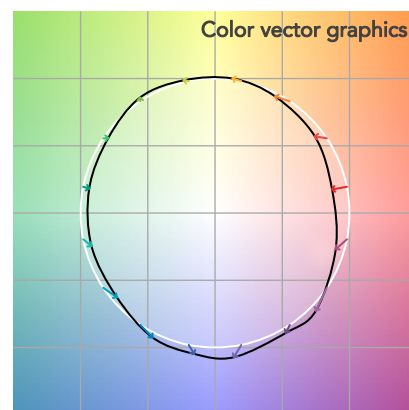
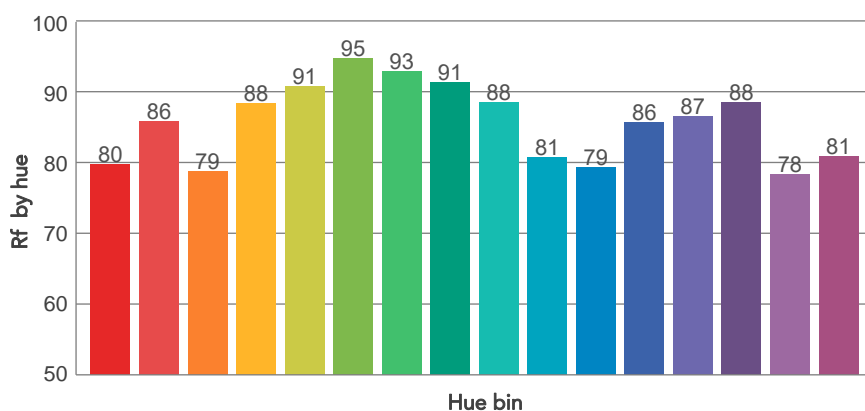
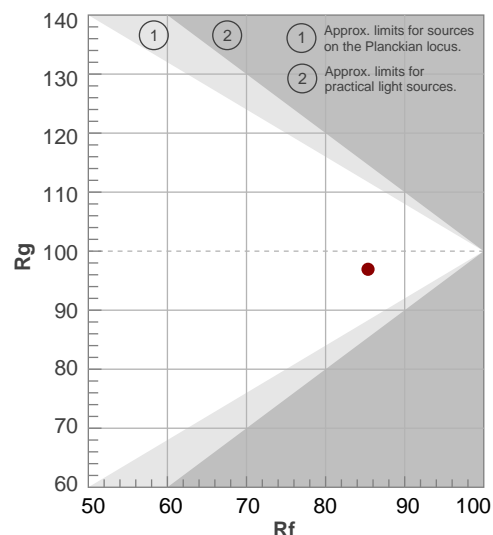
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4399 K	86,2	19,4	85,4	96,9	83,4	72	0,363	0,356	-0,0044

TM30 DETAILS

Rf 85,4
Fidelity index Rf

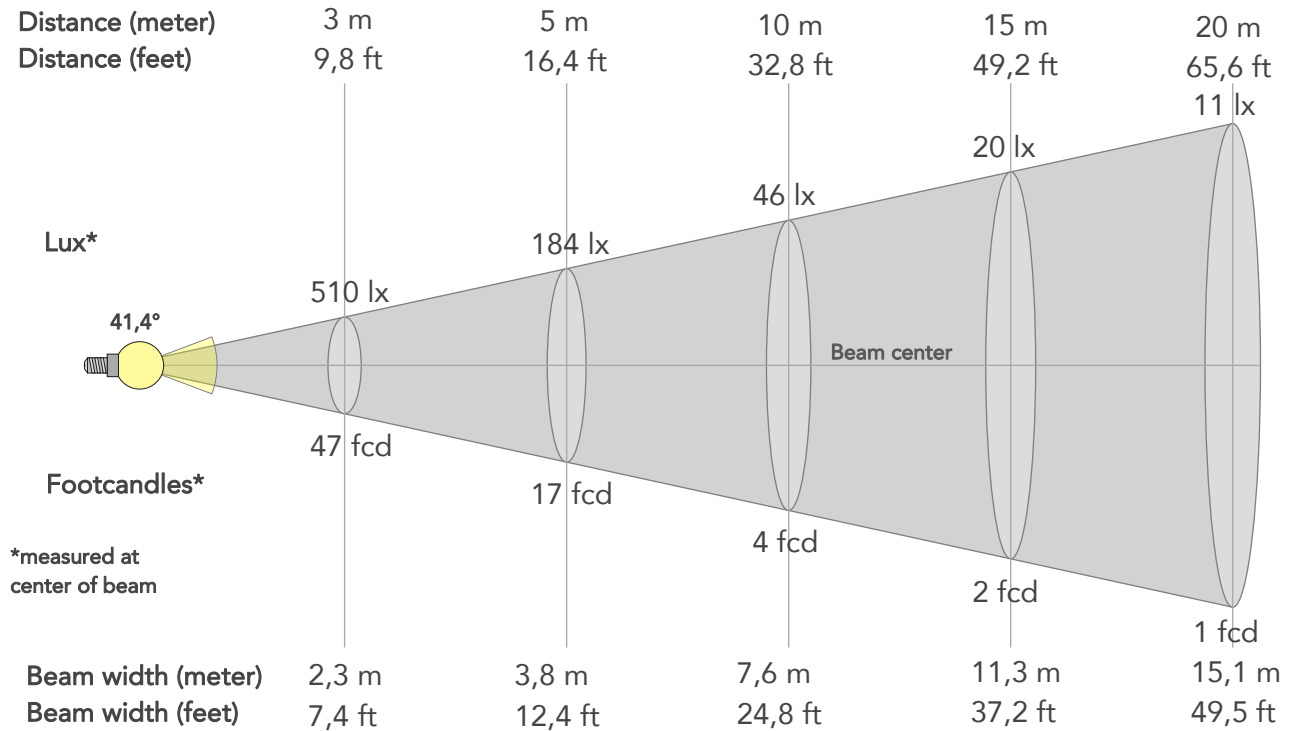
Rg 96,9
Gammut index

		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	80	-11%	0%
2	86	-7%	6%
3	79	-3%	11%
4	88	1%	7%
5	91	1%	4%
6	95	2%	-1%
7	93	-3%	-2%
8	91	-5%	0%
9	88	-5%	6%
10	81	-5%	11%
11	79	3%	13%
12	86	6%	5%
13	87	8%	-7%
14	88	3%	-6%
15	78	3%	-19%
16	81	-7%	-9%



BEAM DETAILS

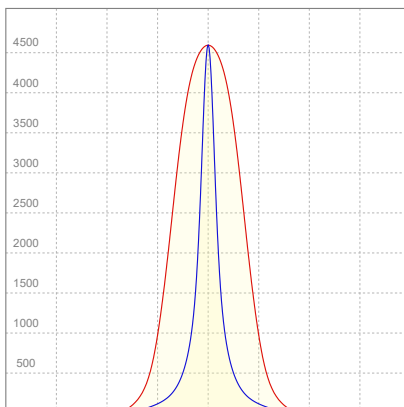
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
41,4°	76,4°	111,7°	97,1%	85,9%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	4591lx	1148lx	510lx	287lx	184lx	82lx	46lx	20lx	11lx	7lx	5lx	3lx	2lx
Footcand.	427fcd	107fcd	47fcd	27fcd	17fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,8m	1,5m	2,3m	3m	3,8m	5,7m	7,6m	11,3m	15,1m	18,9m	22,7m	30,2m	37,8m
Beam wid.	2,5ft	5ft	7,4ft	9,9ft	12,4ft	18,6ft	24,8ft	37,2ft	49,5ft	61,9ft	74,3ft	99,1ft	123,9ft

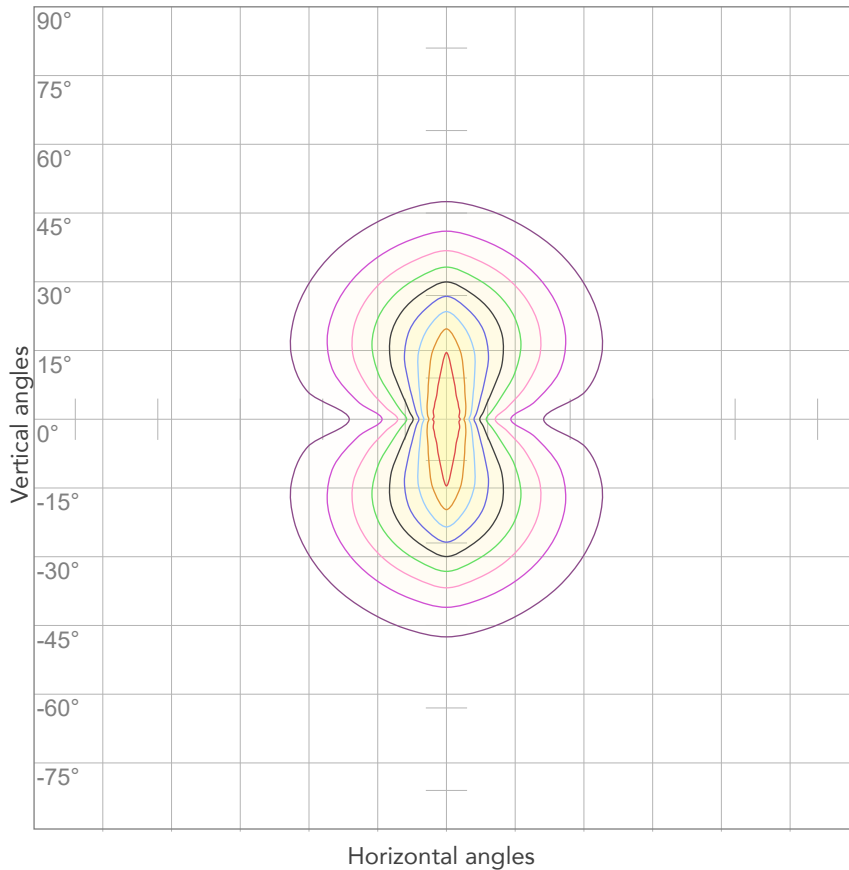
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,201A	42,3W	80lm/W

ISO CANDELA DIAGRAM



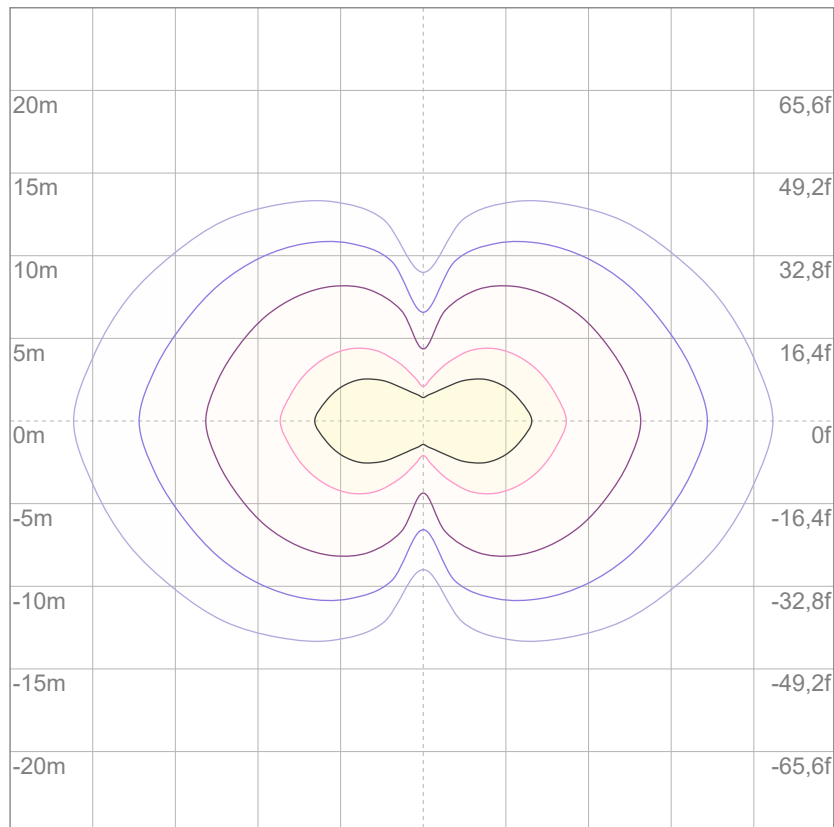
10%	459 cd
20%	918 cd
30%	1377 cd
40%	1837 cd
50%	2296 cd
60%	2755 cd
70%	3214 cd
80%	3673 cd

Conditions:

Number of c-planes: 4

Candela at center: 4591 cd

ISO LUX DIAGRAM



3%	1,38 lx
5%	2,30 lx
10%	4,59 lx
30%	13,8 lx
50%	23,0 lx

Conditions:

Number of c-planes: 4

Lux at center: 45,9 lx

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

Total lumen output:

2464 lm

Peak candela output:

2528 cd

Light quality:

CRI: 86,0

Color temperature:

4365 K



PRODUCT NAME:

ARCSHINEM9VW

MEASURAMENT CONDITIONS:

Beam angle:

8° + Filter 30°x60°

Target:

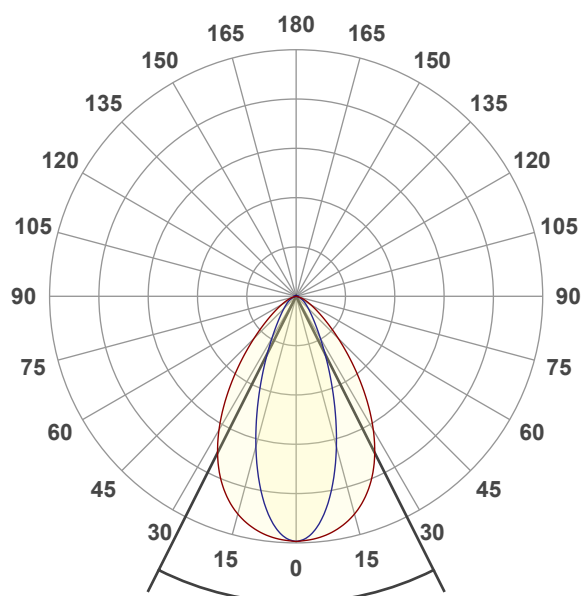
Full on

Operator:

Paolo Carvone

Date and time:

08/09/2022 18:07:54

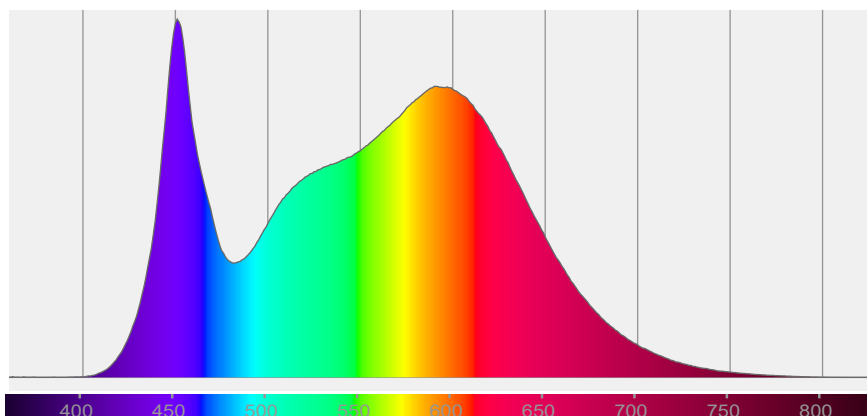


Beam angle 50%: 53,3°

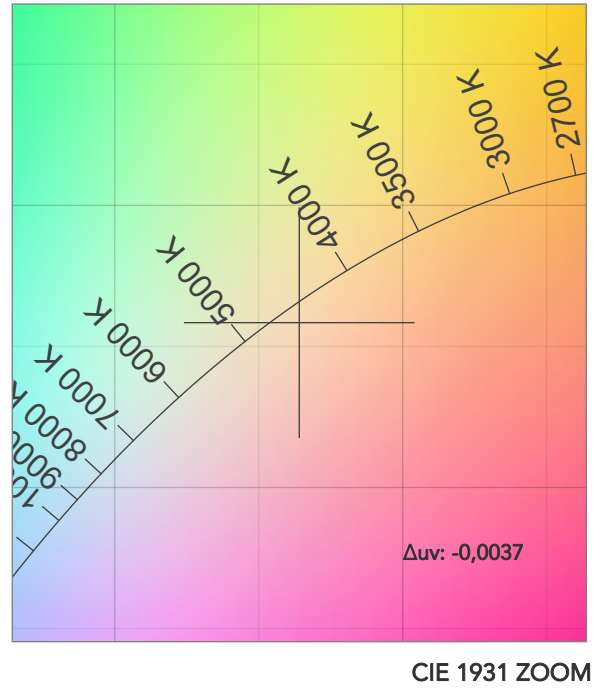
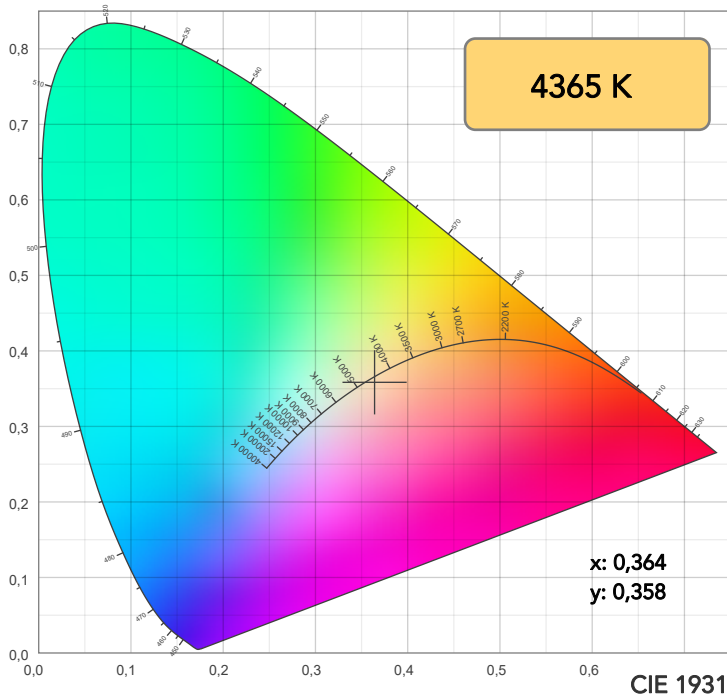
Field angle 10%: 94,8°

Cut off angle 2.5%: 133°

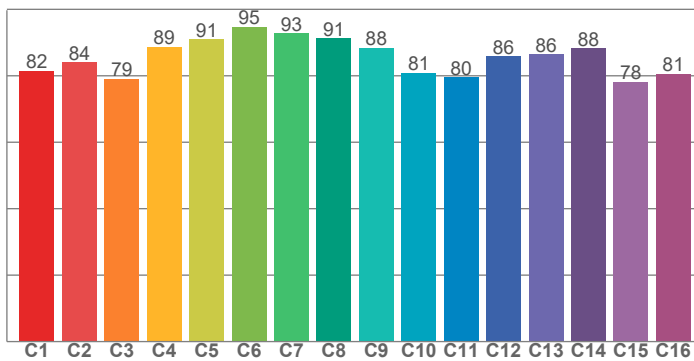
Spectra



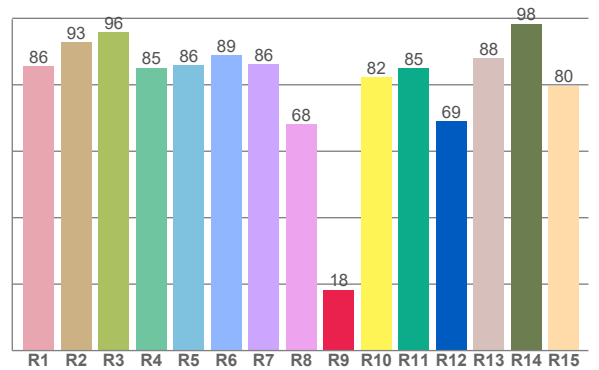
COLOR DETAILS



TM30: 85,4



CRI: 86,0 (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
85,6	92,9	95,7	85,1	85,8	88,8	86,1	68,2	18,4	82,3	85,1	69,0	87,9	98,3	79,7

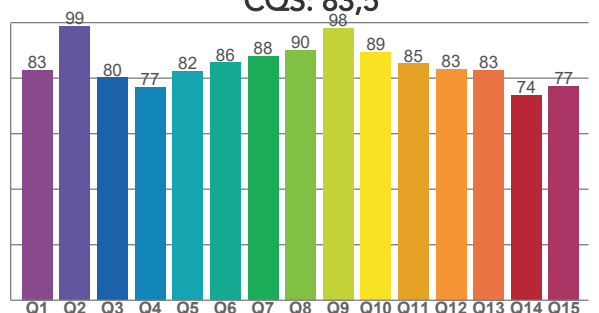
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81,5	84,0	79,0	88,7	90,9	94,8	92,8	91,3	88,5	80,8	79,6	85,9	86,5	88,3	78,1	80,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
83,0	98,7	80,3	76,8	82,5	85,6	87,9	90,0	98,1	89,3	85,2	83,2	82,9	73,8	77,2

CQS: 83,5



COLOR PARAMETERS

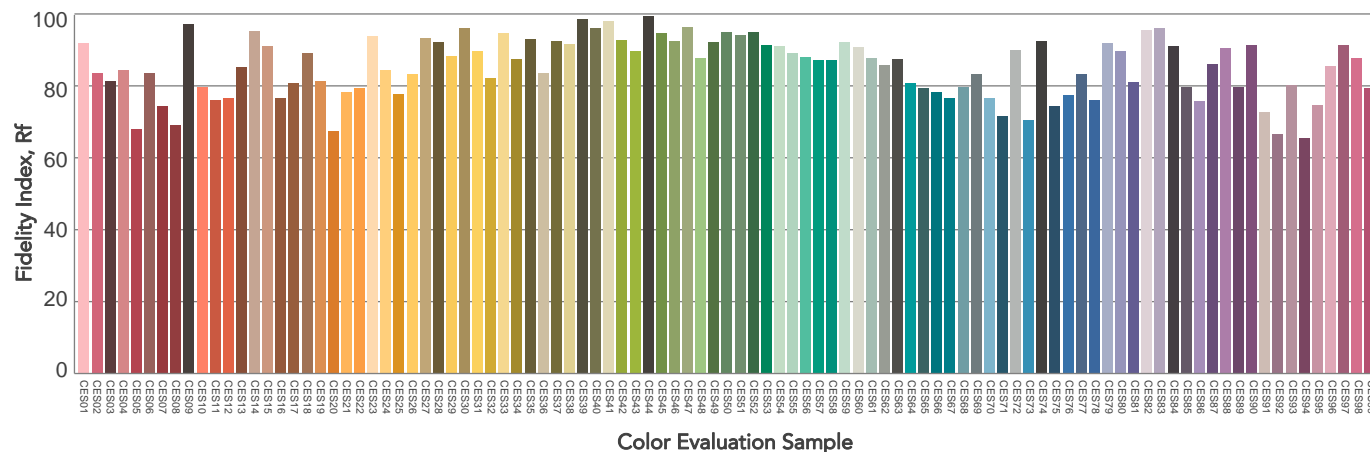
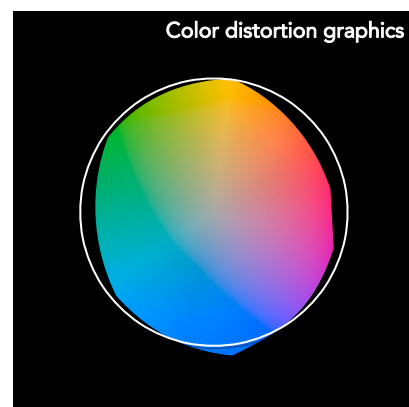
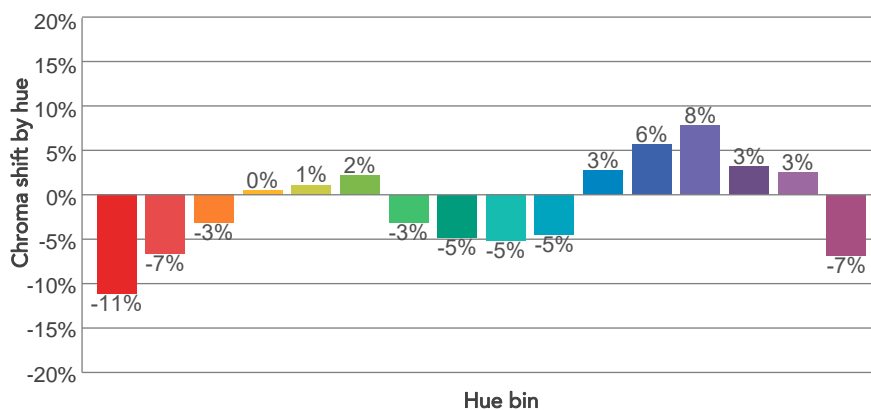
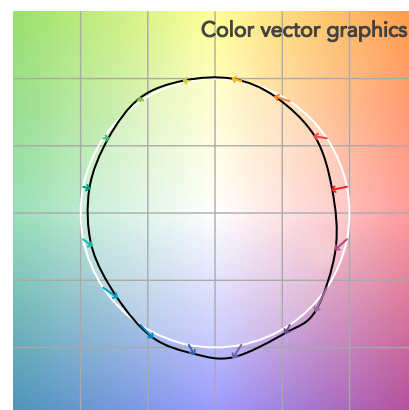
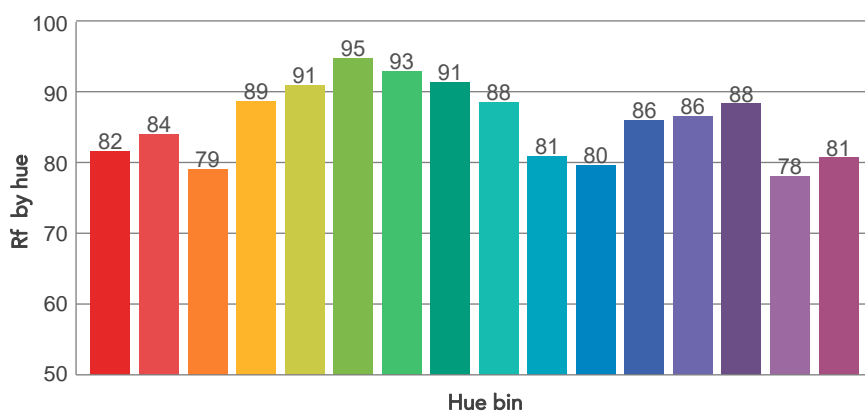
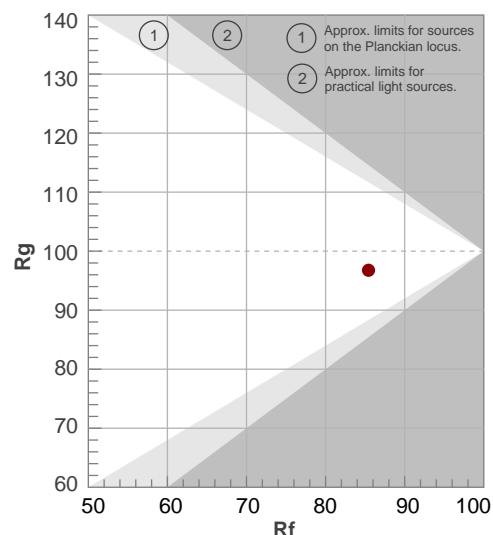
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4365 K	86,0	18,4	85,4	96,8	83,5	72	0,364	0,358	-0,0037

TM30 DETAILS

Rf 85,4
Fidelity index Rf

Rg 96,8
Gammut index

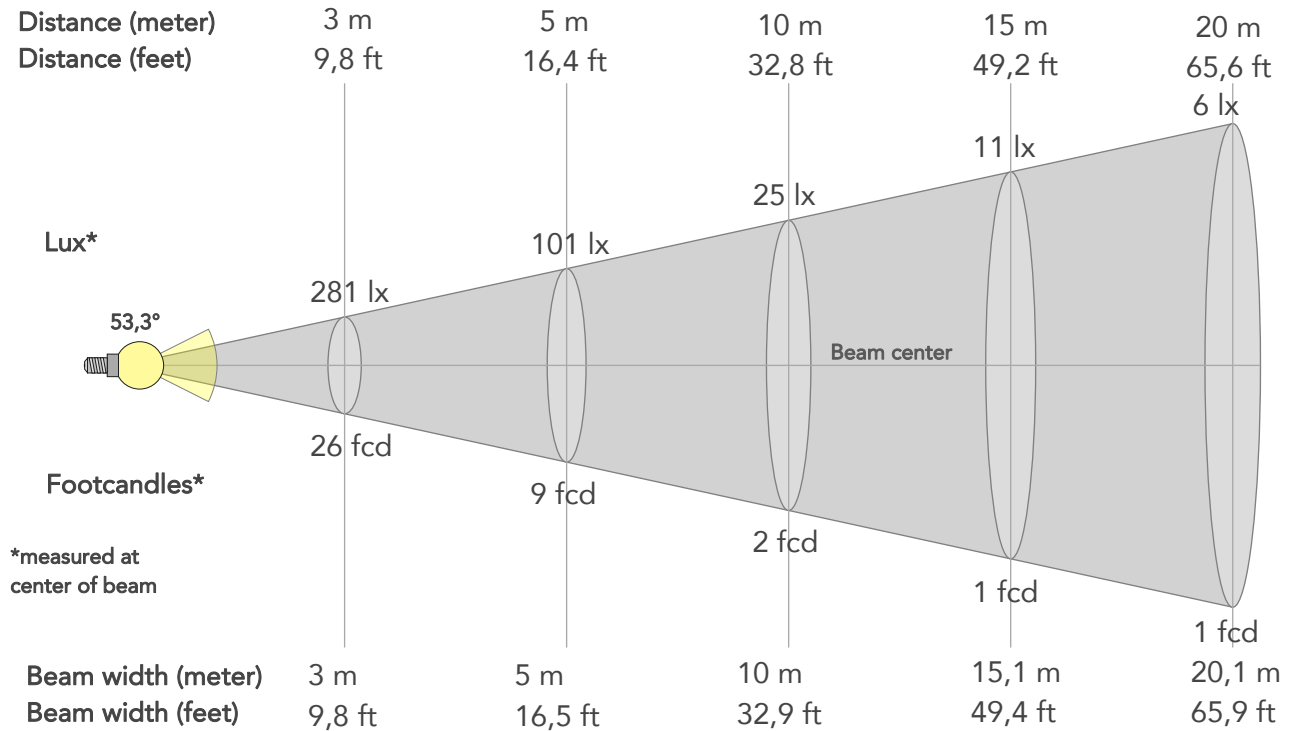
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	82	-11%	0%
2	84	-7%	6%
3	79	-3%	11%
4	89	0%	7%
5	91	1%	4%
6	95	2%	-1%
7	93	-3%	-2%
8	91	-5%	0%
9	88	-5%	6%
10	81	-5%	11%
11	80	3%	13%
12	86	6%	5%
13	86	8%	-7%
14	88	3%	-6%
15	78	3%	-19%
16	81	-7%	-9%



BEAM DETAILS



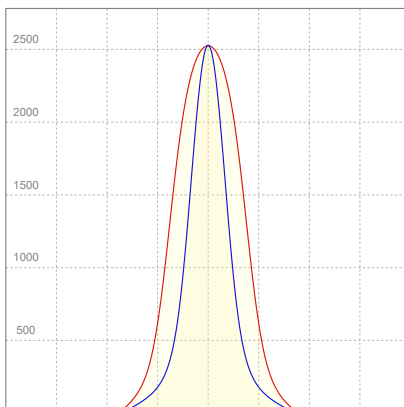
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
53,3°	94,8°	133°	95,6%	83,4%



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	2527lx	632lx	281lx	158lx	101lx	45lx	25lx	11lx	6lx	4lx	3lx	2lx	1lx
Footcand.	235fcd	59fcd	26fcd	15fcd	9fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2m	3m	4m	5m	7,5m	10m	15,1m	20,1m	25,1m	30,1m	40,2m	50,2m
Beam wid.	3,3ft	6,6ft	9,8ft	13,2ft	16,5ft	24,7ft	32,9ft	49,4ft	65,9ft	82,3ft	98,8ft	131,8ft	164,7ft

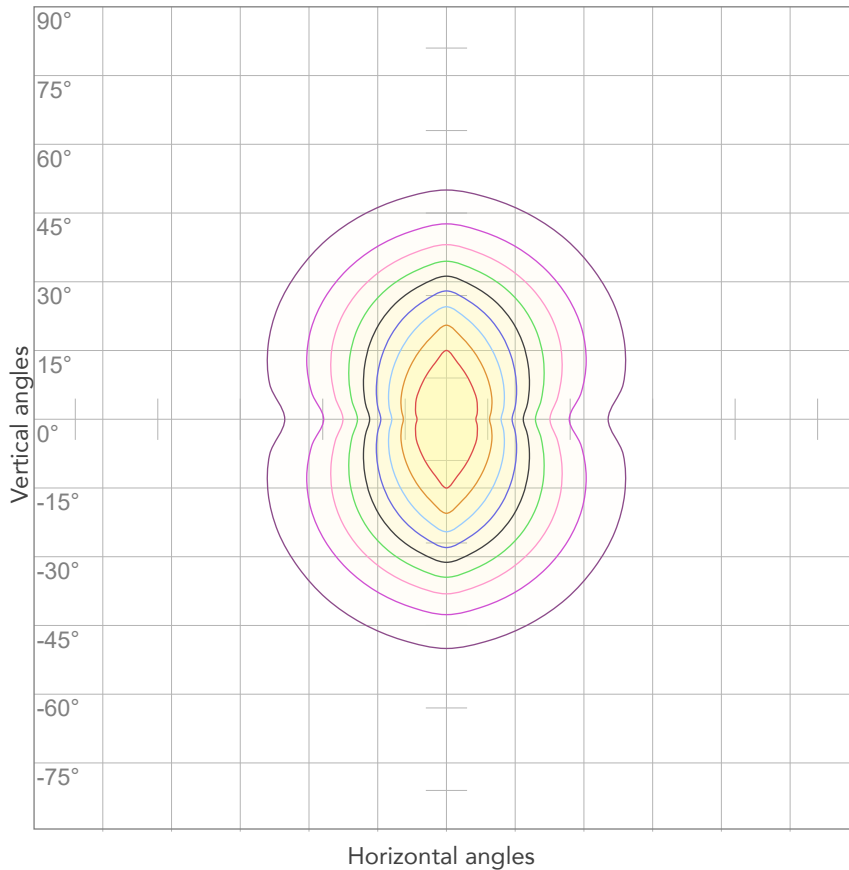
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,202A	42,3W	58lm/W

ISO CANDELA DIAGRAM



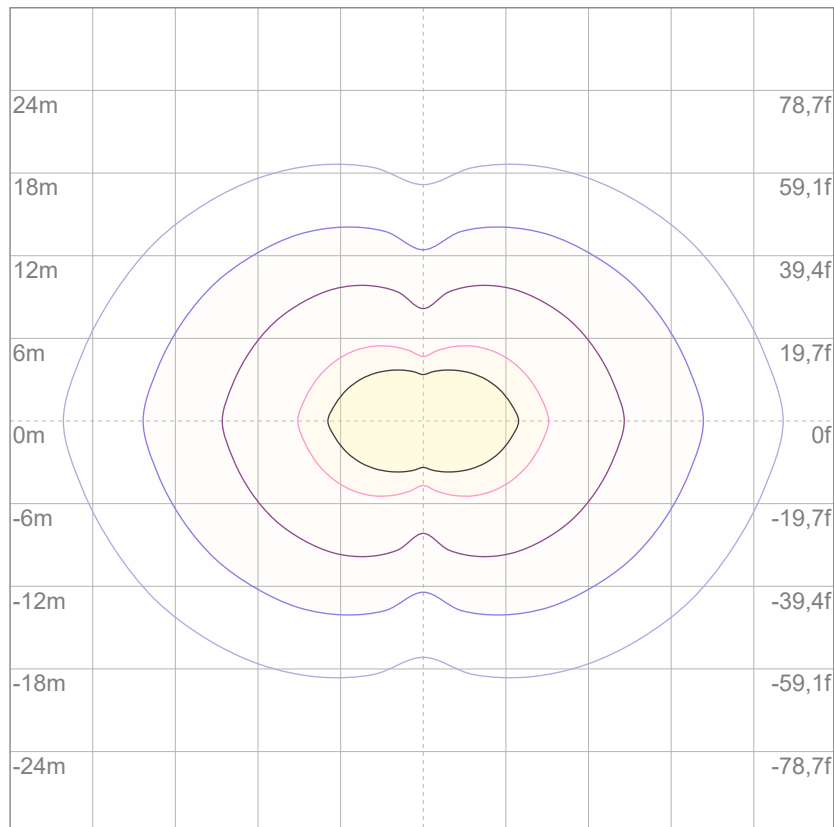
10%	253 cd
20%	505 cd
30%	758 cd
40%	1011 cd
50%	1263 cd
60%	1516 cd
70%	1769 cd
80%	2022 cd

Conditions:

Number of c-planes: 4

Candela at center: 2527 cd

ISO LUX DIAGRAM



3%	0,758 lx
5%	1,26 lx
10%	2,53 lx
30%	7,58 lx
50%	12,6 lx

Conditions:

Number of c-planes: 4

Lux at center: 25,3 lx

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

Total lumen output:

1118 lm

Peak candela output:

17164 cd

Light quality:

CRI: 80,2

Color temperature:

2796 K



PRODUCT NAME:

ARCSHINEM9VW

MEASURAMENT CONDITIONS:

Beam angle:

8°

Target:

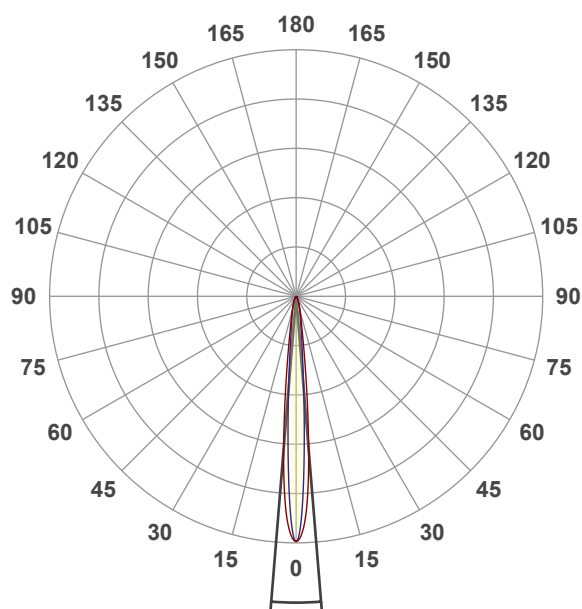
Warm White

Operator:

Paolo Carvone

Date and time:

08/09/2022 18:14:03

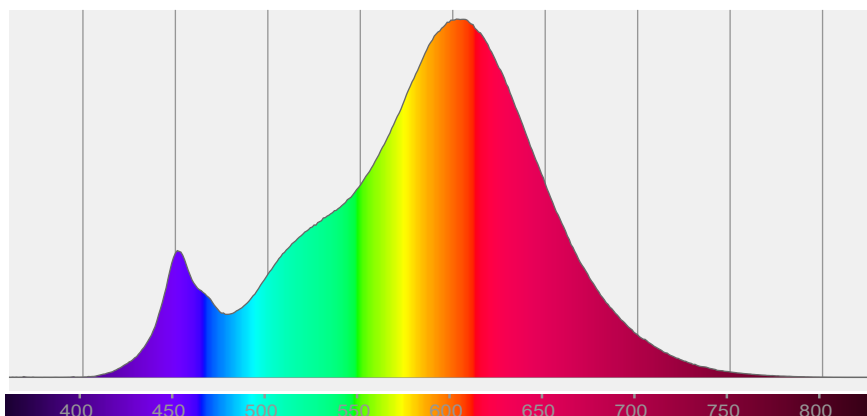


Beam angle 50%: 9,3°

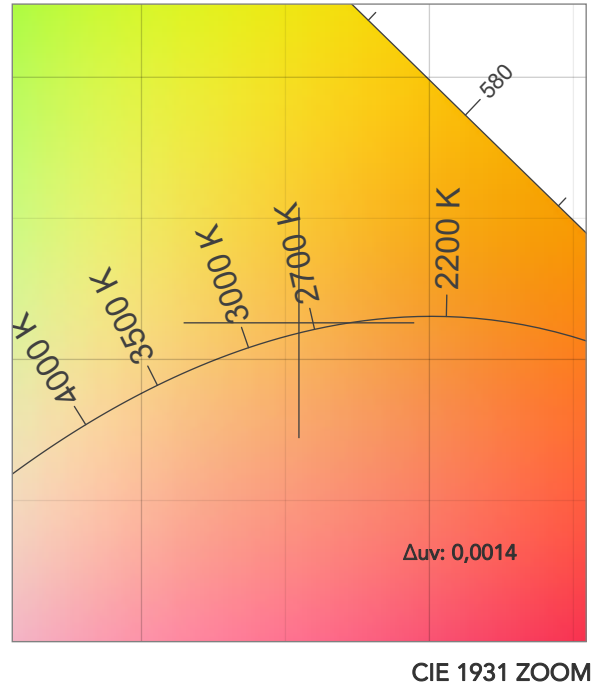
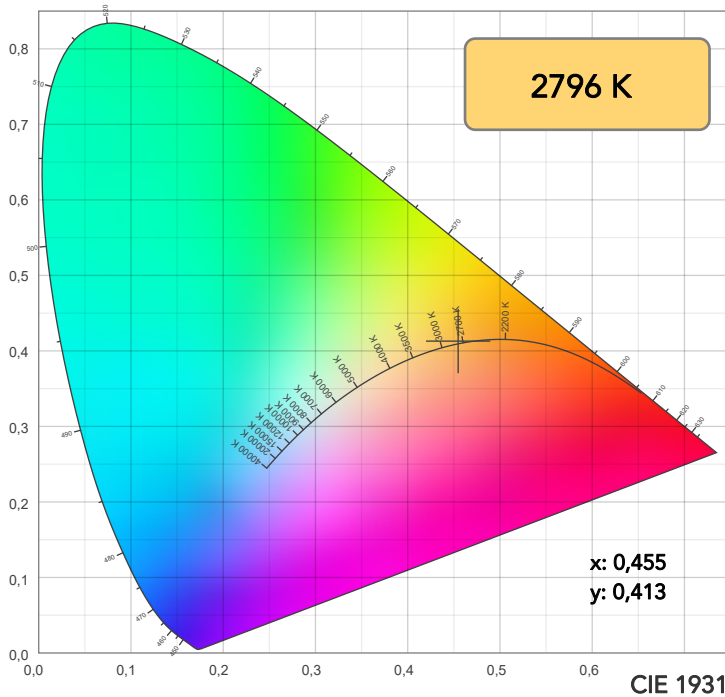
Field angle 10%: 22°

Cut off angle 2.5%: 44,6°

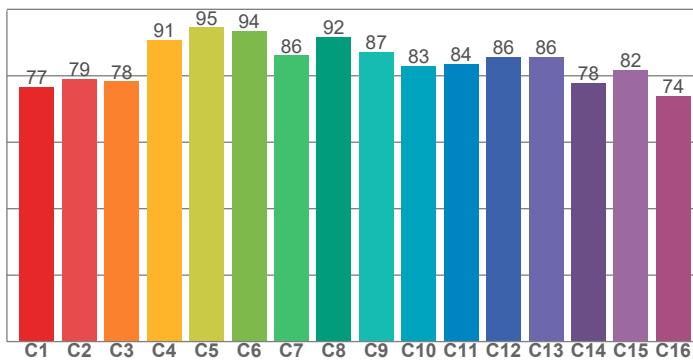
Spectra



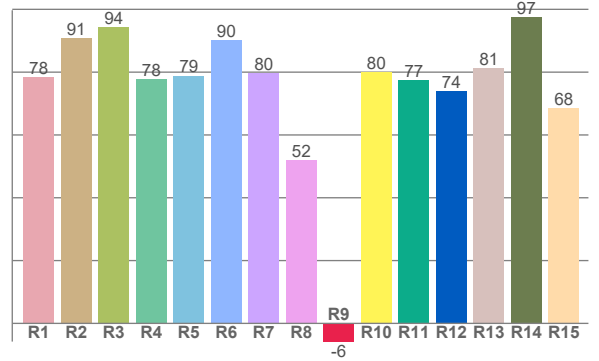
COLOR DETAILS



TM30: 84,3



CRI: 80,2 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
78,3	90,7	94,3	77,8	78,8	90,1	79,6	52,0	-5,8	79,9	77,4	73,9	81,3	97,4	68,4

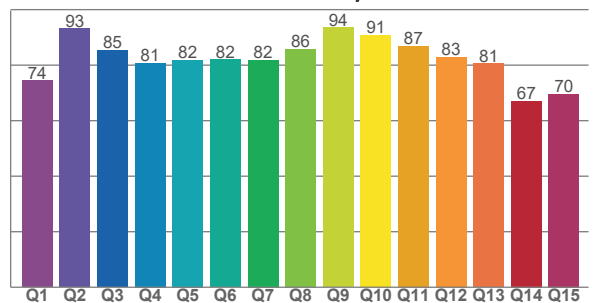
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
76,7	79,1	78,3	90,7	94,5	93,6	86,2	91,7	87,2	83,1	83,7	85,8	85,8	77,9	81,8	74,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,4	93,1	85,4	80,7	81,9	82,1	81,8	85,9	93,6	90,8	86,9	83,0	80,6	67,1	69,7

CQS: 80,8



COLOR PARAMETERS

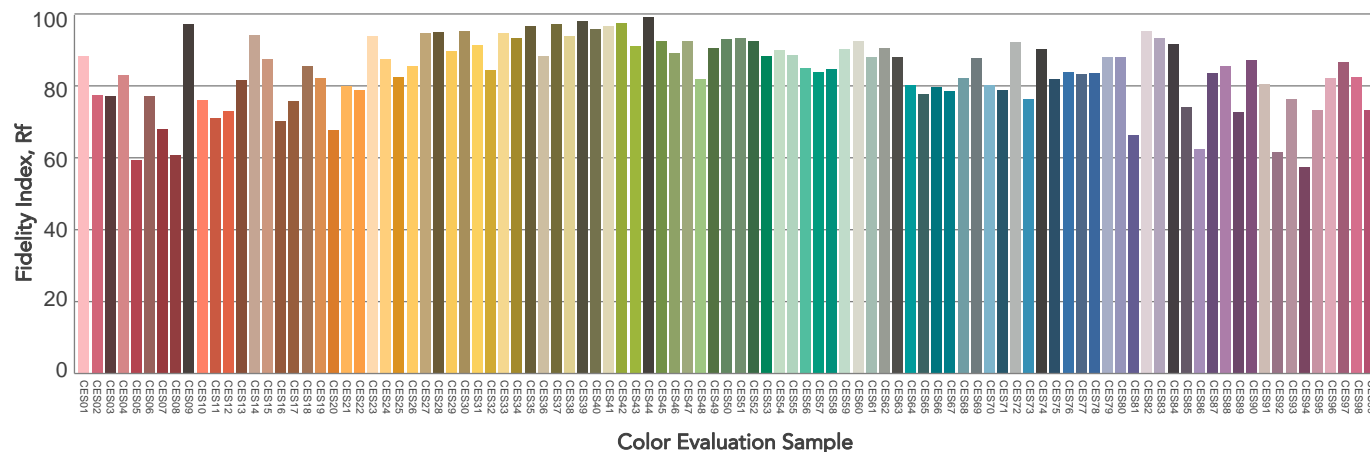
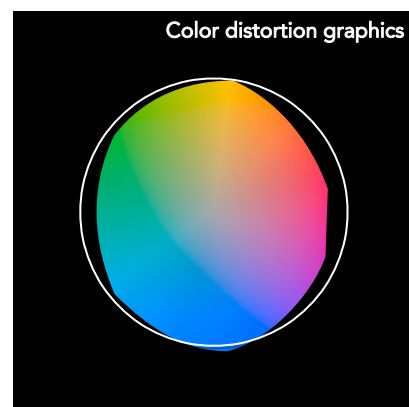
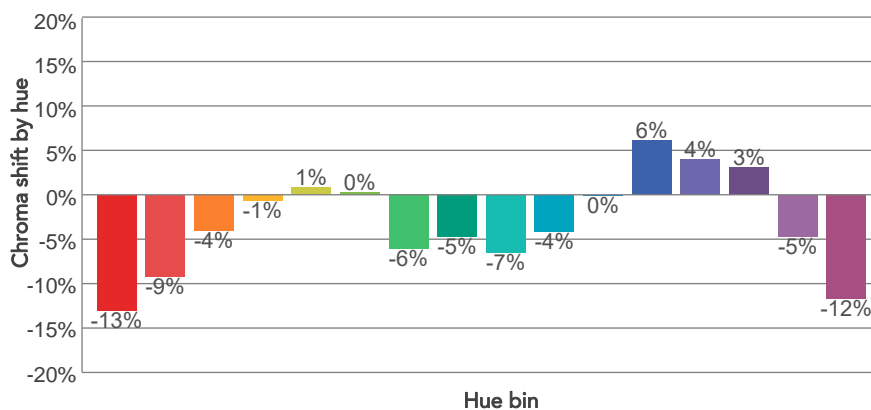
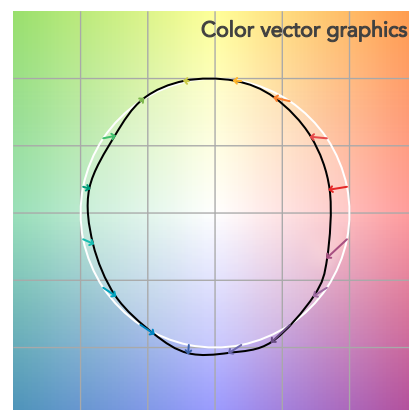
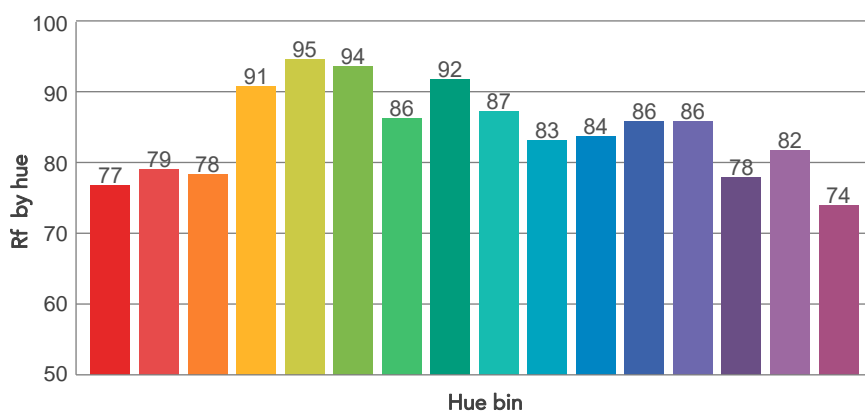
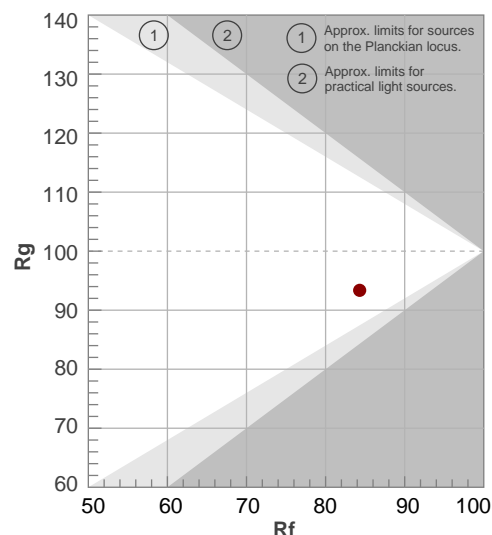
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2796 K	80,2	-5,8	84,3	93,4	80,8	63	0,455	0,413	0,0014

TM30 DETAILS

Rf 84,3
Fidelity index Rf

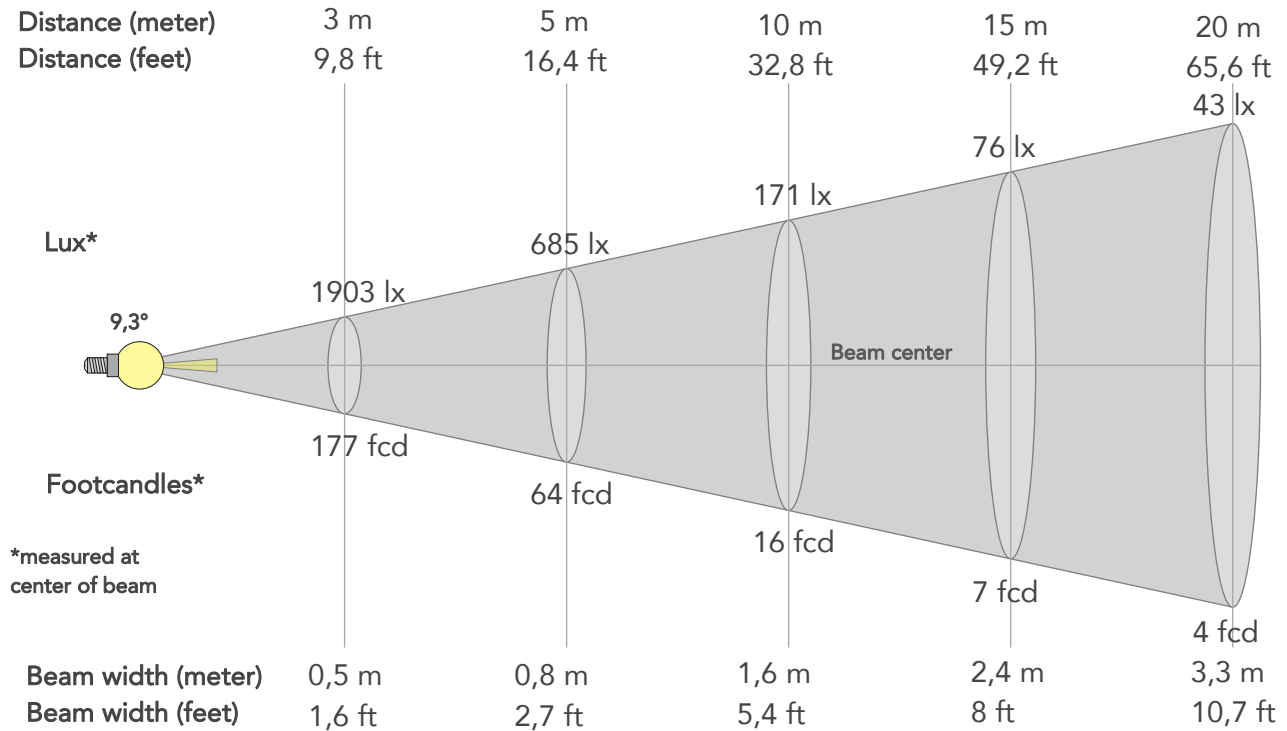
Rg 93,4
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	77	-13%	0%
2	79	-9%	7%
3	78	-4%	11%
4	91	-1%	5%
5	95	1%	3%
6	94	0%	-3%
7	86	-6%	-6%
8	92	-5%	0%
9	87	-7%	5%
10	83	-4%	10%
11	84	0%	12%
12	86	6%	1%
13	86	4%	-10%
14	78	3%	-18%
15	82	-5%	-10%
16	74	-12%	-16%



BEAM DETAILS

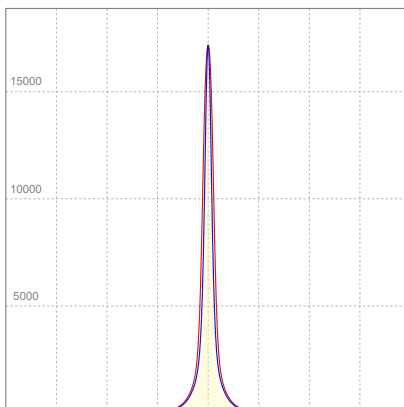
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
9,3°	22°	44,6°	99,9%	97,8%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	17131lx	4283lx	1903lx	1071lx	685lx	305lx	171lx	76lx	43lx	27lx	19lx	11lx	7lx
Footcand.	1592fcd	398fcd	177fcd	99fcd	64fcd	28fcd	16fcd	7fcd	4fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,2m	0,3m	0,5m	0,7m	0,8m	1,2m	1,6m	2,4m	3,3m	4,1m	4,9m	6,5m	8,2m
Beam wid.	0,5ft	1,1ft	1,6ft	2,1ft	2,7ft	4ft	5,4ft	8ft	10,7ft	13,4ft	16,1ft	21,4ft	26,8ft

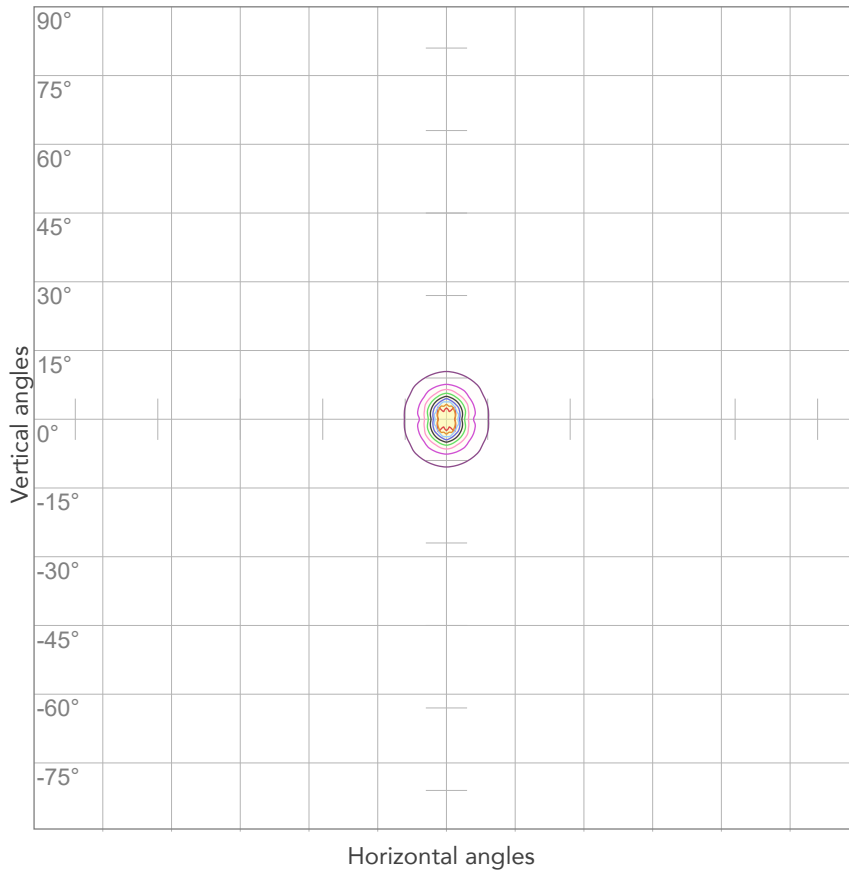
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,119A	22,3W	50lm/W

ISO CANDELA DIAGRAM



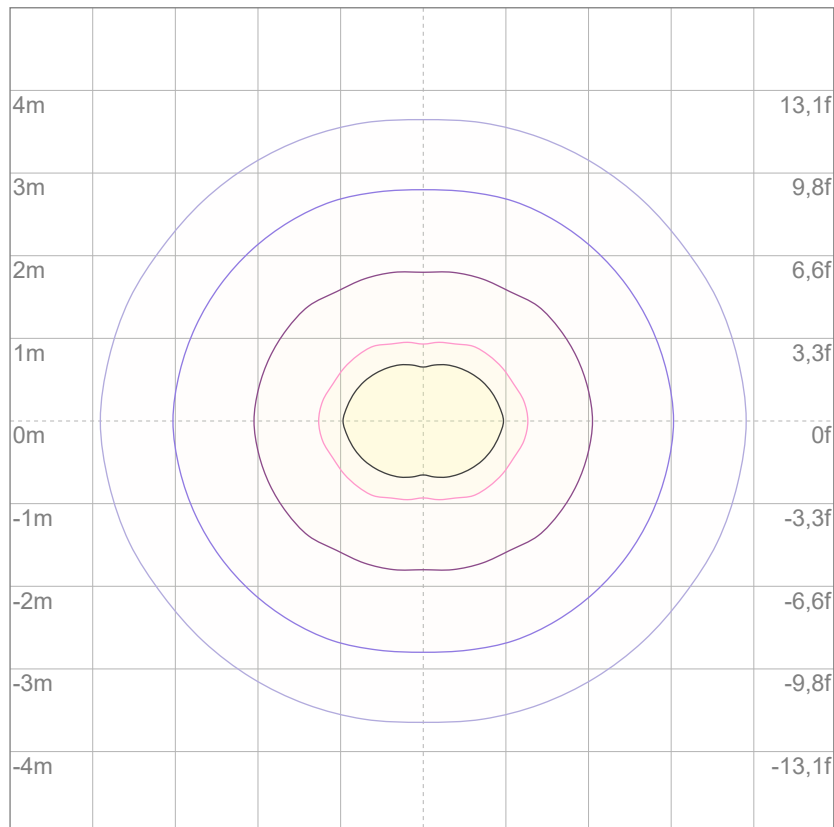
10%	1713 cd
20%	3426 cd
30%	5139 cd
40%	6852 cd
50%	8565 cd
60%	10279 cd
70%	11992 cd
80%	13705 cd

Conditions:

Number of c-planes: 4

Candela at center: 17131 cd

ISO LUX DIAGRAM



3%	5,14 lx
5%	8,57 lx
10%	17,1 lx
30%	51,4 lx
50%	85,7 lx

Conditions:

Number of c-planes: 4

Lux at center: 171 lx

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

Total lumen output:

1076 lm

Peak candela output:

3074 cd

Light quality:

CRI: 80,2

Color temperature:

2795 K



PRODUCT NAME:

ARCSHINEM9VW

MEASURAMENT CONDITIONS:

Beam angle:

8° + Filter 20°

Target:

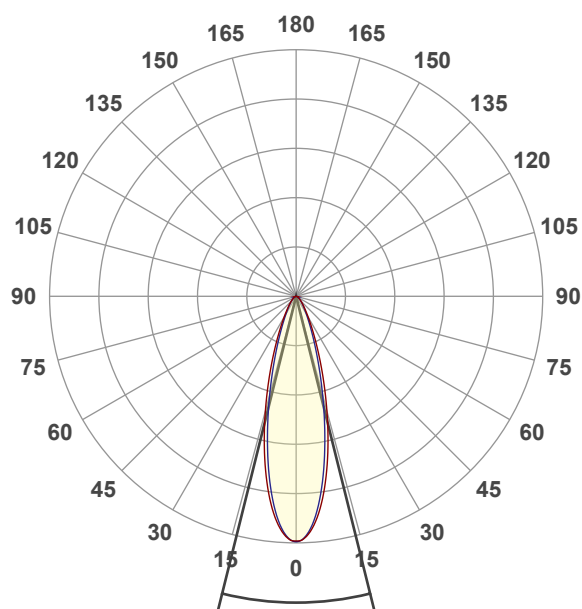
Warm White

Operator:

Paolo Carvone

Date and time:

08/09/2022 18:16:46

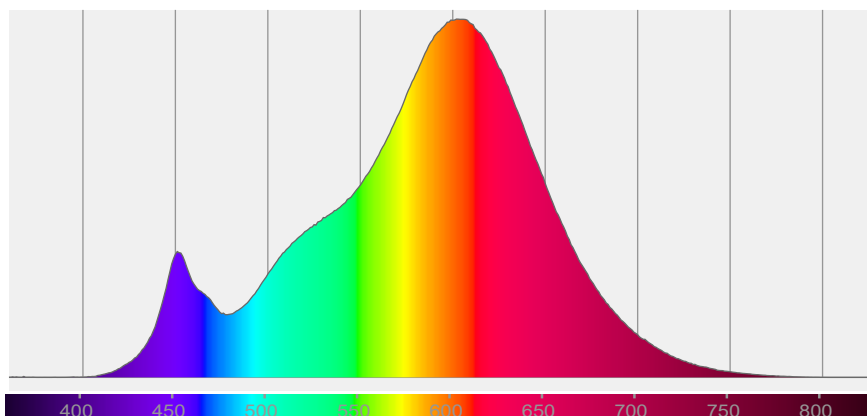


Beam angle 50%: 28°

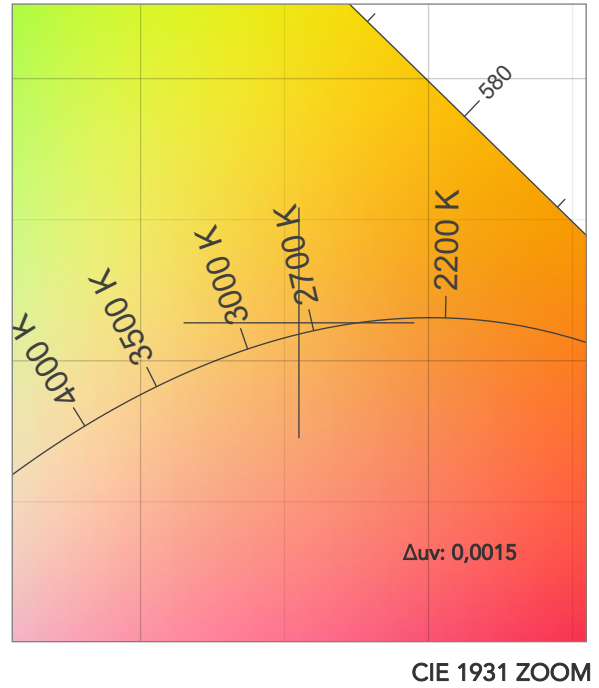
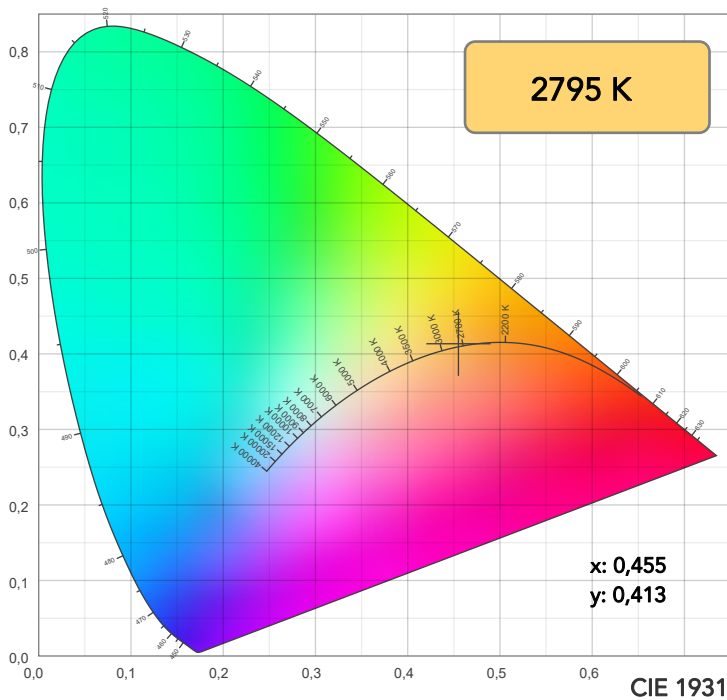
Field angle 10%: 57,9°

Cut off angle 2.5%: 91,8°

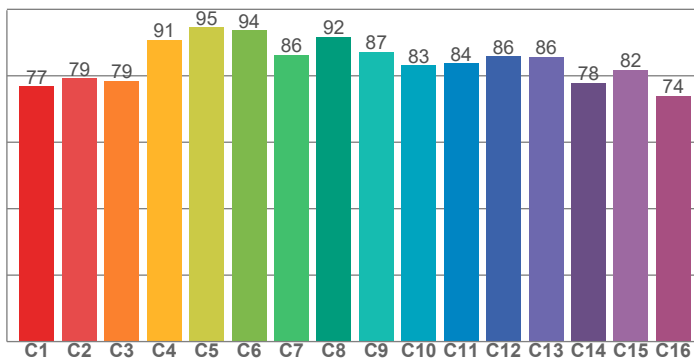
Spectra



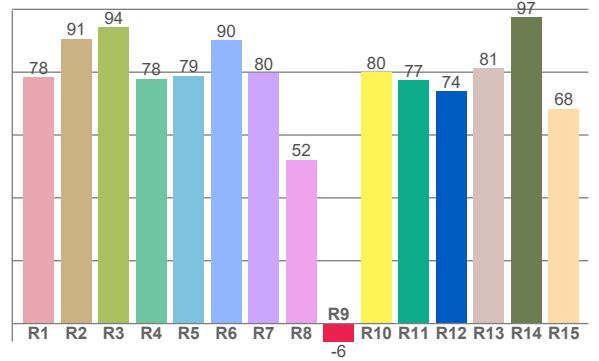
COLOR DETAILS



TM30: 84,4



CRI: 80,2 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
78,3	90,7	94,3	77,9	78,8	90,1	79,7	52,1	-5,7	79,9	77,5	73,9	81,3	97,4	68,4

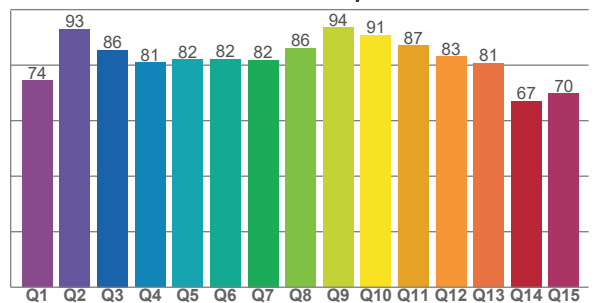
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
76,8	79,2	78,5	90,9	94,6	93,6	86,3	91,7	87,2	83,1	83,7	85,8	85,8	77,9	81,8	74,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,4	93,1	85,5	80,9	82,0	82,1	81,9	86,1	93,6	90,9	87,1	83,1	80,7	67,1	69,7

CQS: 80,9



COLOR PARAMETERS

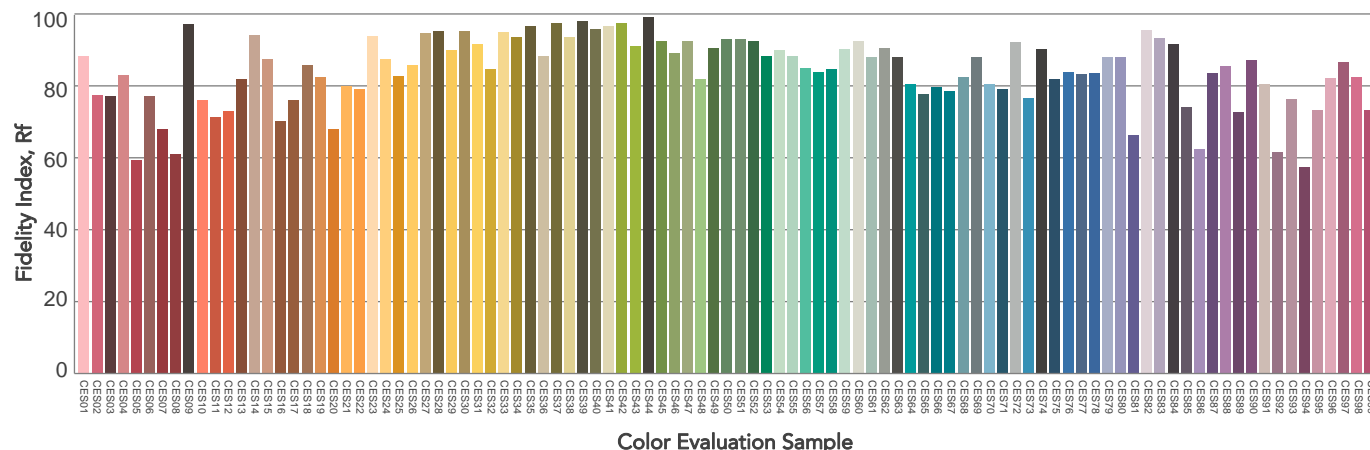
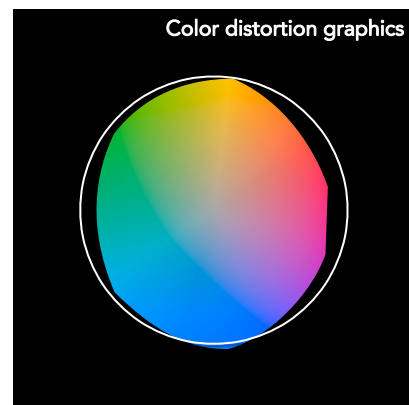
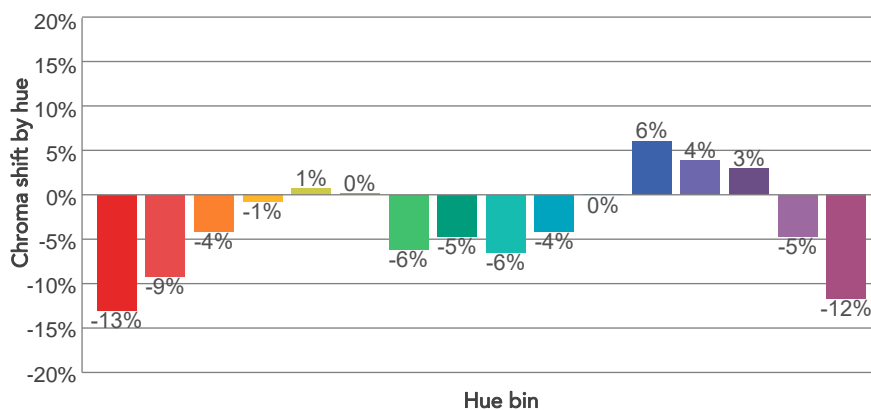
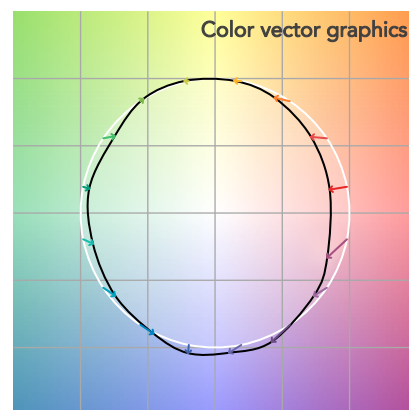
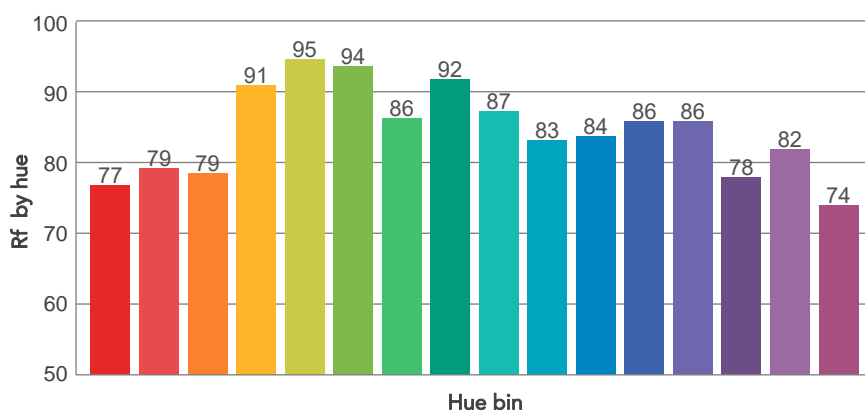
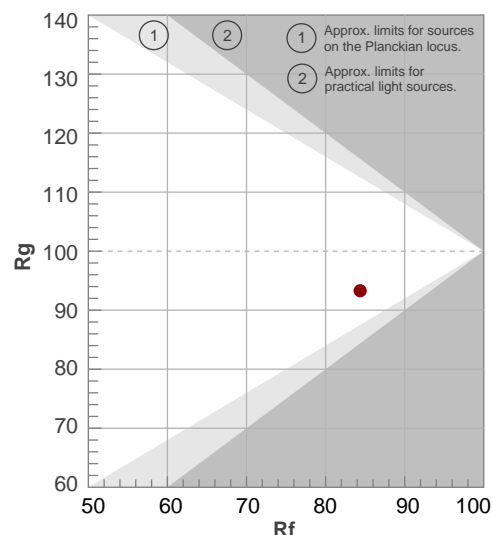
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2795 K	80,2	-5,7	84,4	93,3	80,9	63	0,455	0,413	0,0015

TM30 DETAILS

Rf 84,4
Fidelity index Rf

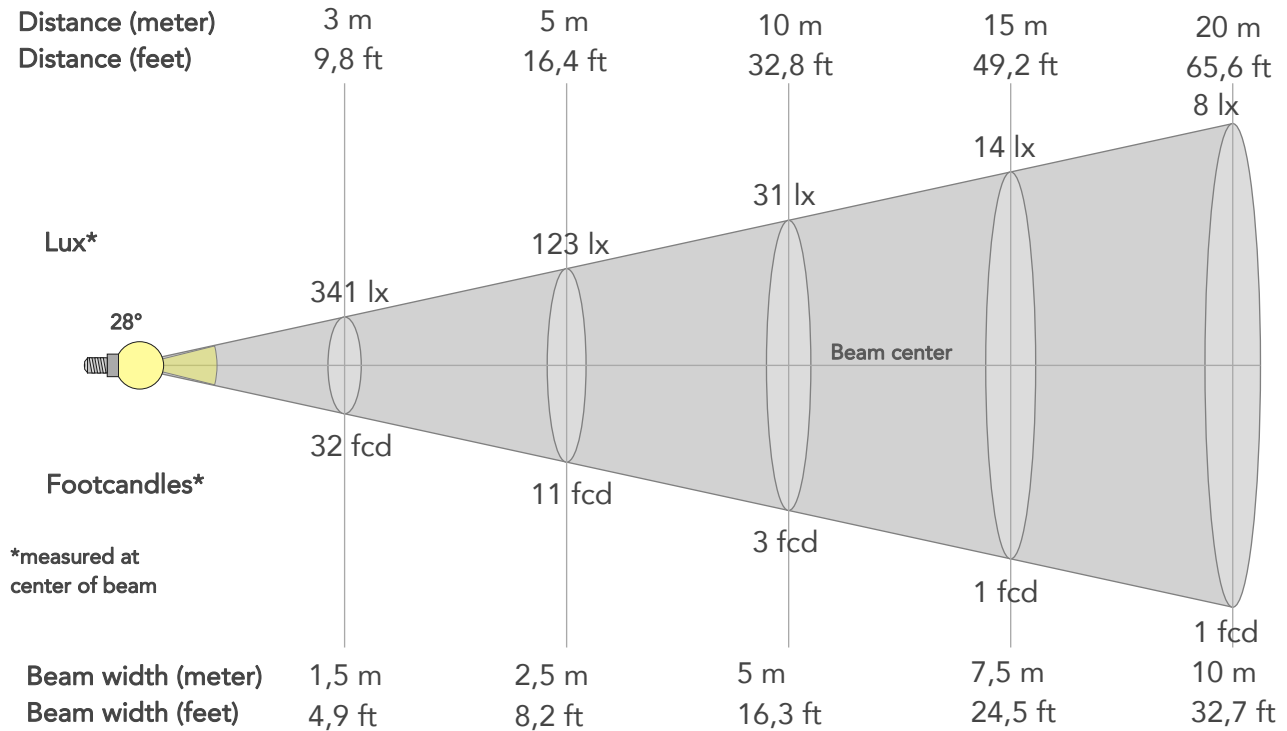
Rg 93,3
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	77	-13%	0%
2	79	-9%	7%
3	79	-4%	11%
4	91	-1%	5%
5	95	1%	3%
6	94	0%	-3%
7	86	-6%	-6%
8	92	-5%	1%
9	87	-6%	5%
10	83	-4%	10%
11	84	0%	12%
12	86	6%	1%
13	86	4%	-10%
14	78	3%	-18%
15	82	-5%	-10%
16	74	-12%	-16%



BEAM DETAILS

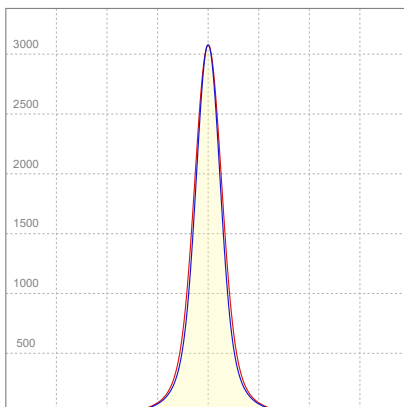
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
28°	57,9°	91,8°	98,6%	92,7%



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	3071lx	768lx	341lx	192lx	123lx	55lx	31lx	14lx	8lx	5lx	3lx	2lx	1lx
Footcand.	285fcd	71fcd	32fcd	18fcd	11fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,5m	2m	2,5m	3,7m	5m	7,5m	10m	12,4m	14,9m	19,9m	24,9m
Beam wid.	1,6ft	3,3ft	4,9ft	6,5ft	8,2ft	12,2ft	16,3ft	24,5ft	32,7ft	40,8ft	49ft	65,3ft	81,6ft

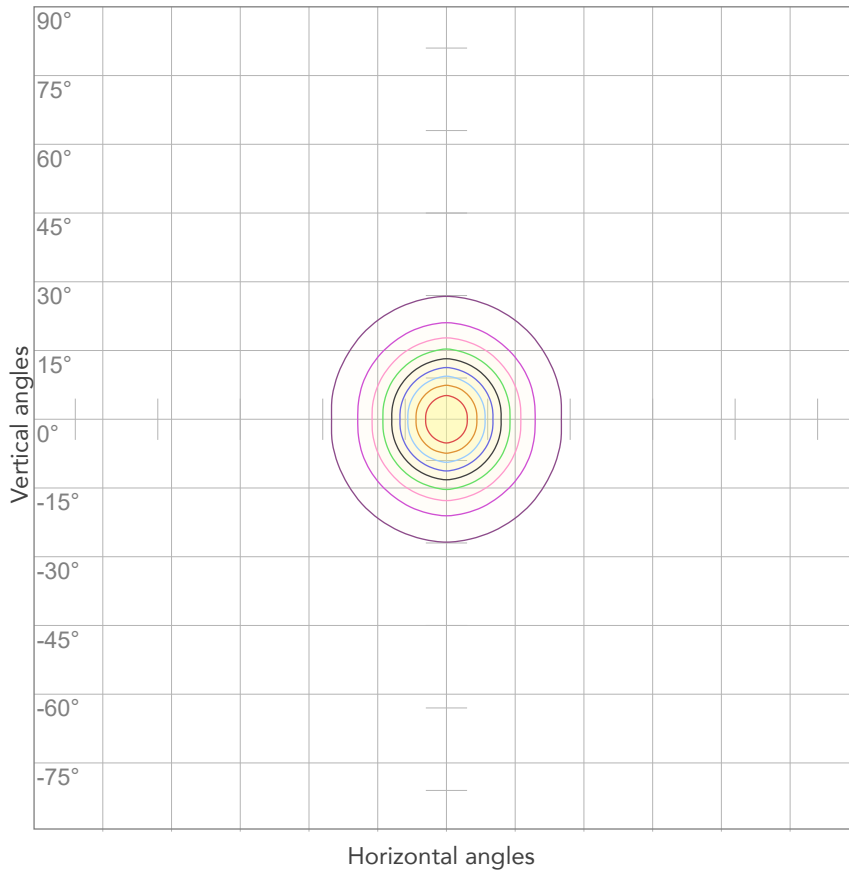
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,119A	22,3W	48lm/W

ISO CANDELA DIAGRAM



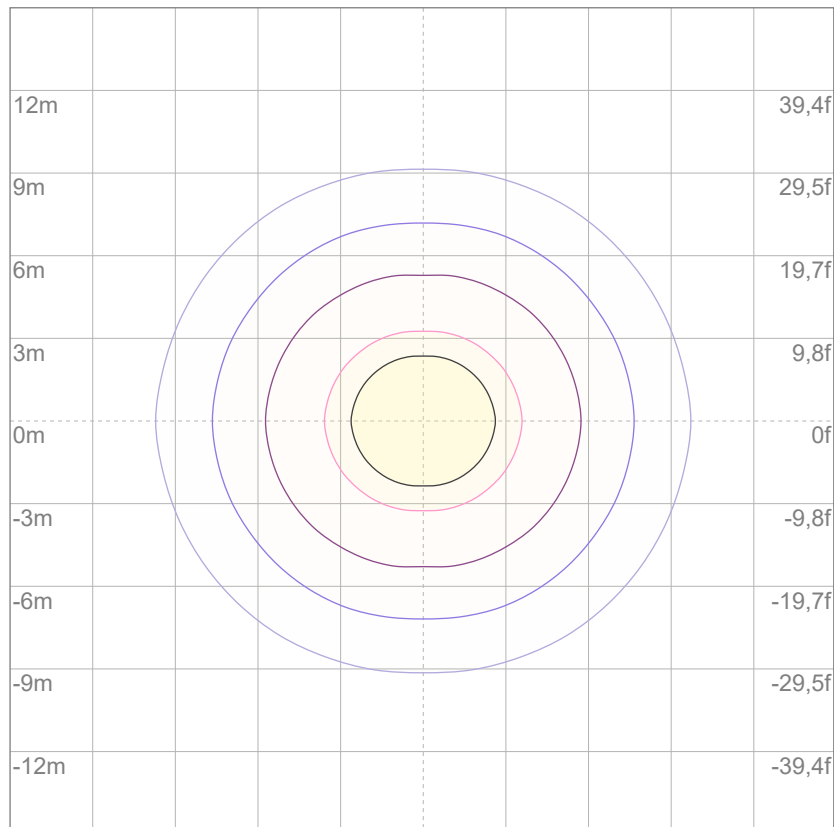
10%	307 cd
20%	614 cd
30%	921 cd
40%	1228 cd
50%	1535 cd
60%	1842 cd
70%	2149 cd
80%	2456 cd

Conditions:

Number of c-planes: 4

Candela at center: 3071 cd

ISO LUX DIAGRAM



3%	0,921 lx
5%	1,54 lx
10%	3,07 lx
30%	9,21 lx
50%	15,4 lx

Conditions:

Number of c-planes: 4

Lux at center: 30,7 lx

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

Total lumen output:

941 lm

Peak candela output:

1421 cd

Light quality:

CRI: 80,5

Color temperature:

2800 K



PRODUCT NAME:

ARCSHINEM9VW

MEASURAMENT CONDITIONS:

Beam angle:

8° + Filter 40°

Target:

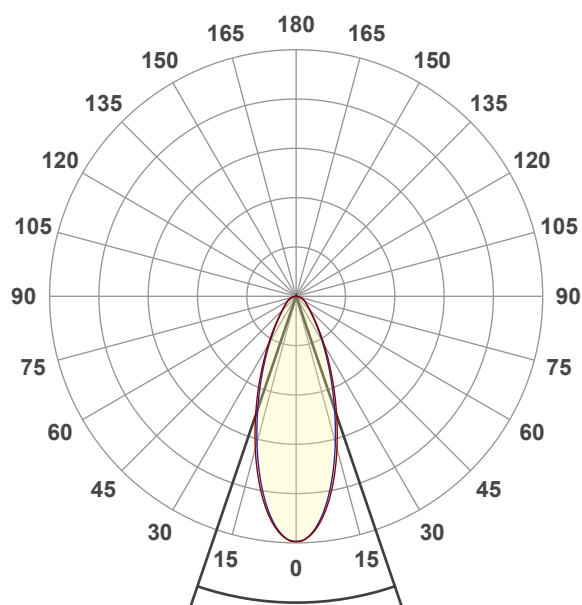
Warm White

Operator:

Paolo Carvone

Date and time:

08/09/2022 18:19:18

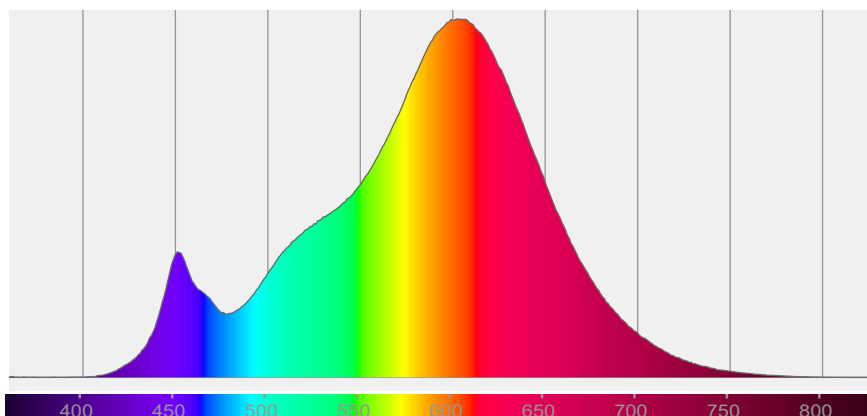


Beam angle 50%: 37,6°

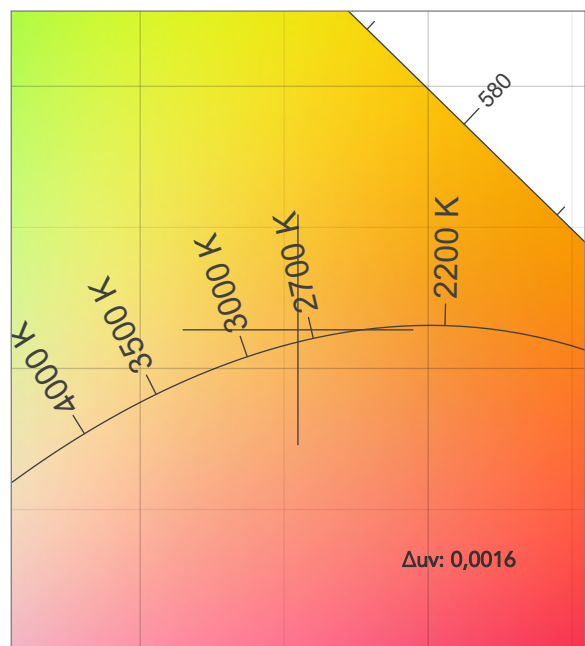
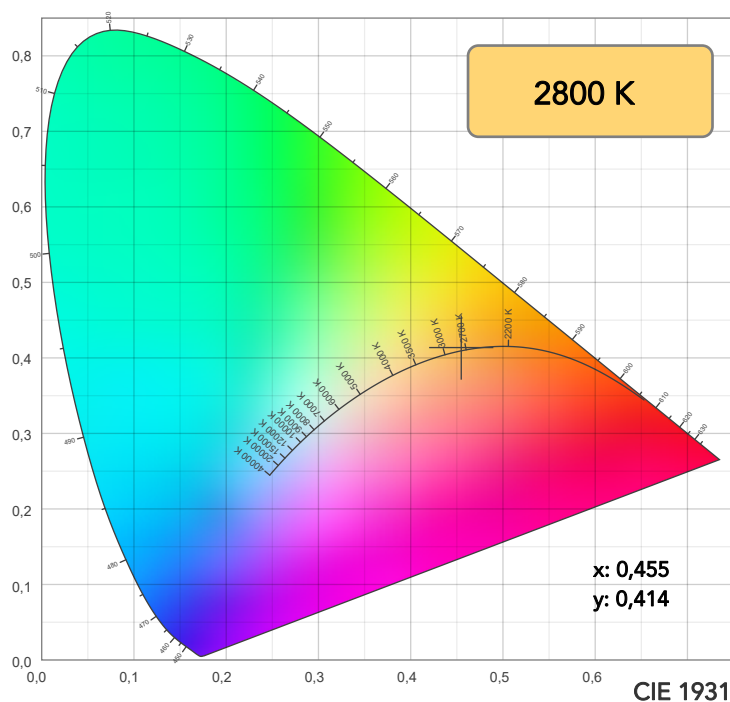
Field angle 10%: 81,6°

Cut off angle 2.5%: 140,4°

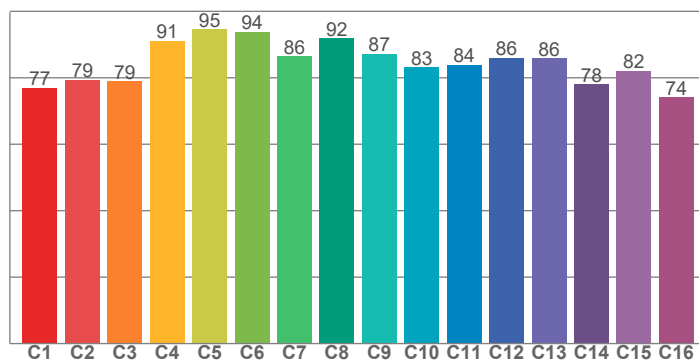
Spectra



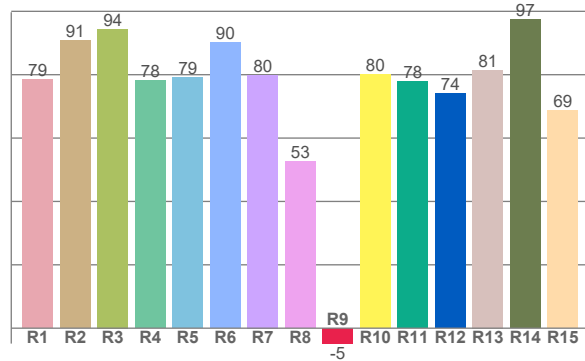
COLOR DETAILS



TM30: 84,5



CRI: 80,5 (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
78,6	90,8	94,4	78,2	79,1	90,2	79,9	52,5	-4,9	80,1	77,9	74,0	81,5	97,4	68,6

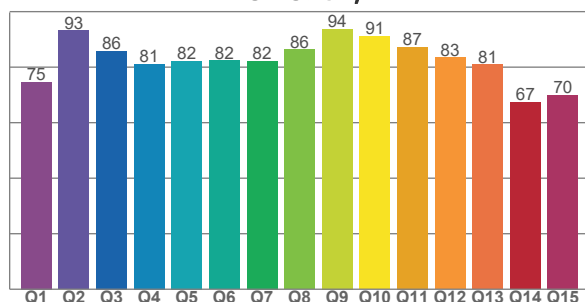
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
77,0	79,4	78,9	91,1	94,6	93,7	86,4	91,8	87,2	83,2	83,9	86,0	85,8	78,1	82,0	74,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,6	93,1	85,8	81,1	82,2	82,4	82,1	86,4	93,7	91,1	87,3	83,4	81,0	67,4	70,0

CQS: 81,1



COLOR PARAMETERS

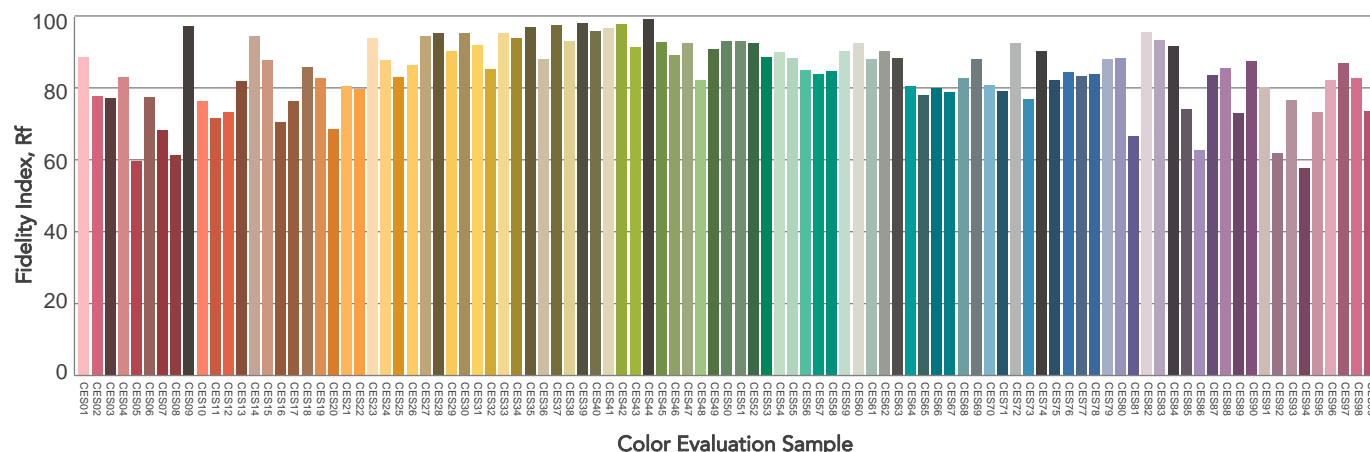
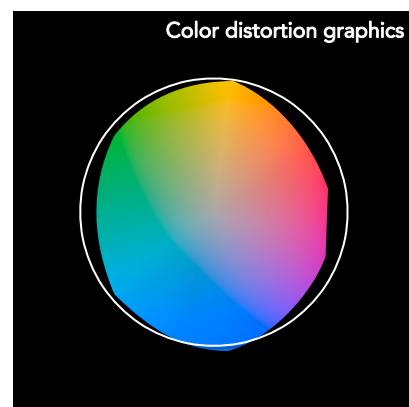
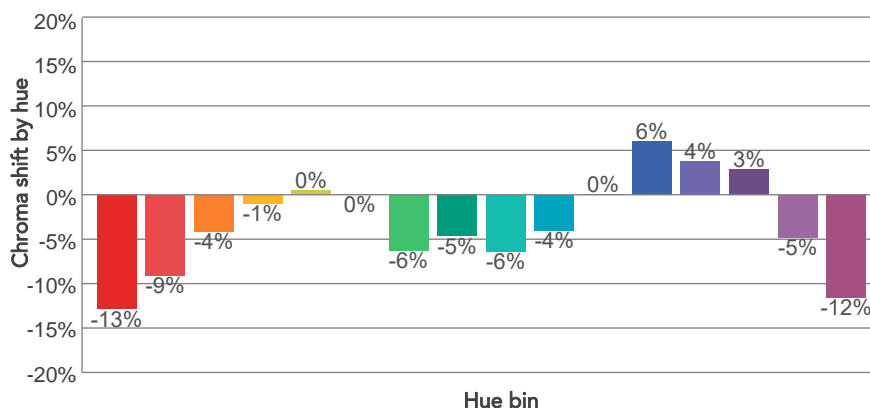
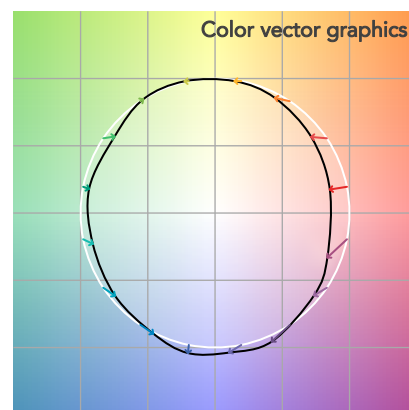
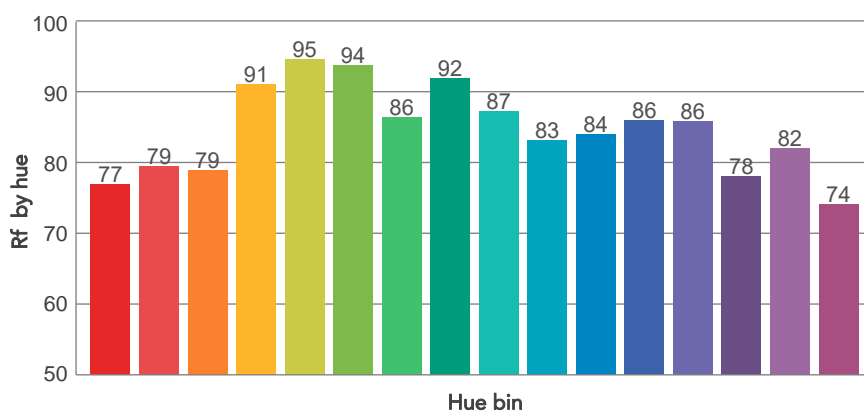
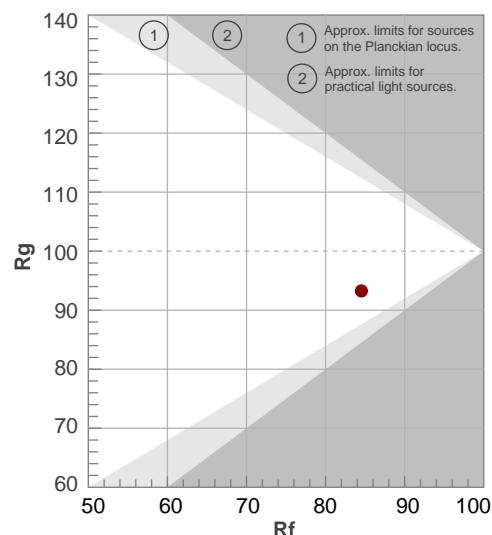
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2800 K	80,5	-4,9	84,5	93,3	81,1	64	0,455	0,414	0,0016

TM30 DETAILS

Rf 84,5
Fidelity index Rf

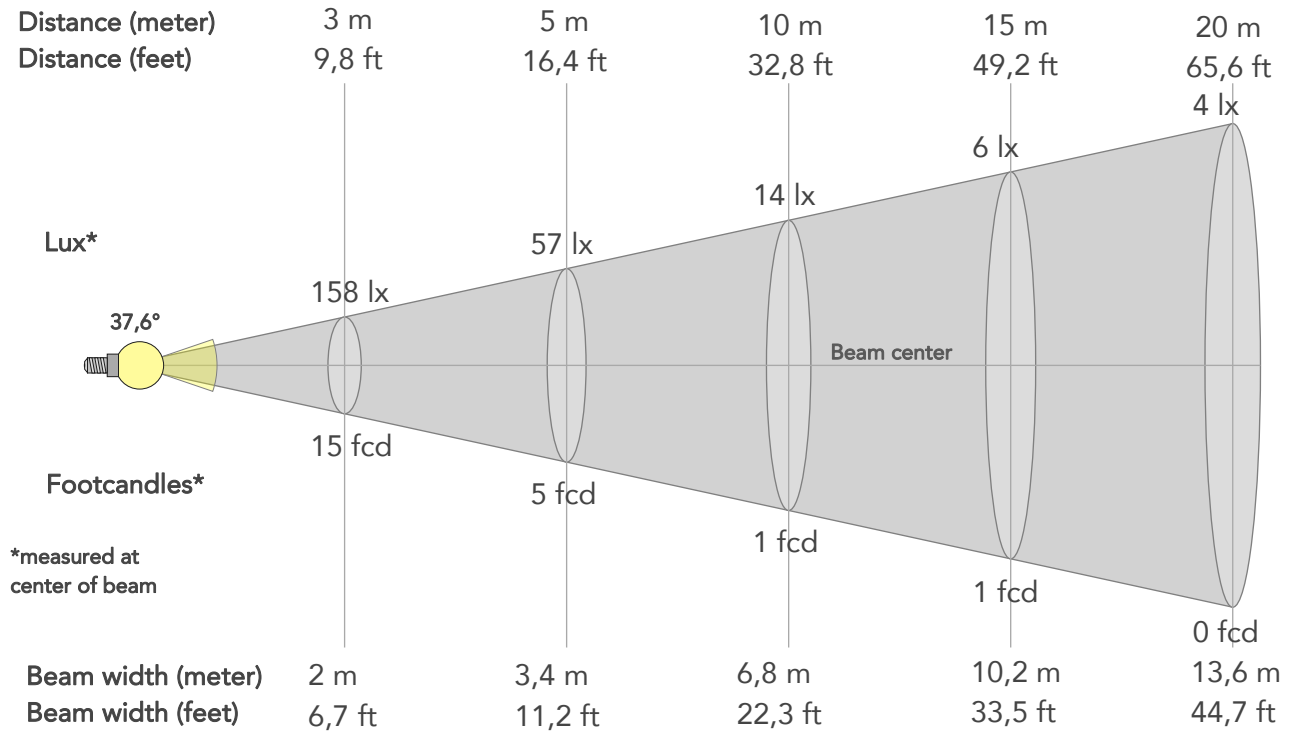
Rg 93,3
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	77	-13%	0%
2	79	-9%	7%
3	79	-4%	10%
4	91	-1%	5%
5	95	0%	3%
6	94	0%	-3%
7	86	-6%	-6%
8	92	-5%	1%
9	87	-6%	5%
10	83	-4%	10%
11	84	0%	12%
12	86	6%	1%
13	86	4%	-10%
14	78	3%	-18%
15	82	-5%	-10%
16	74	-12%	-16%



BEAM DETAILS

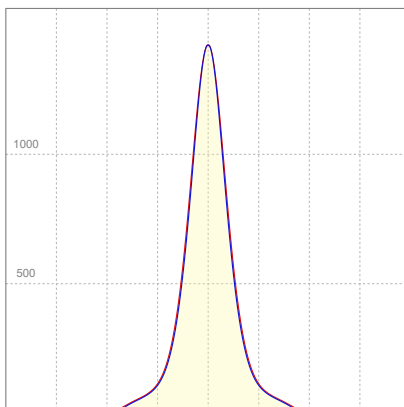
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
37,6°	81,6°	140,4°	92,1%	81,2%



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	1421lx	355lx	158lx	89lx	57lx	25lx	14lx	6lx	4lx	2lx	2lx	1lx	1lx
Footcand.	132fcd	33fcd	15fcd	8fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,4m	2m	2,7m	3,4m	5,1m	6,8m	10,2m	13,6m	17m	20,4m	27,2m	34m
Beam wid.	2,2ft	4,5ft	6,7ft	8,9ft	11,2ft	16,7ft	22,3ft	33,5ft	44,7ft	55,8ft	67ft	89,3ft	111,7ft

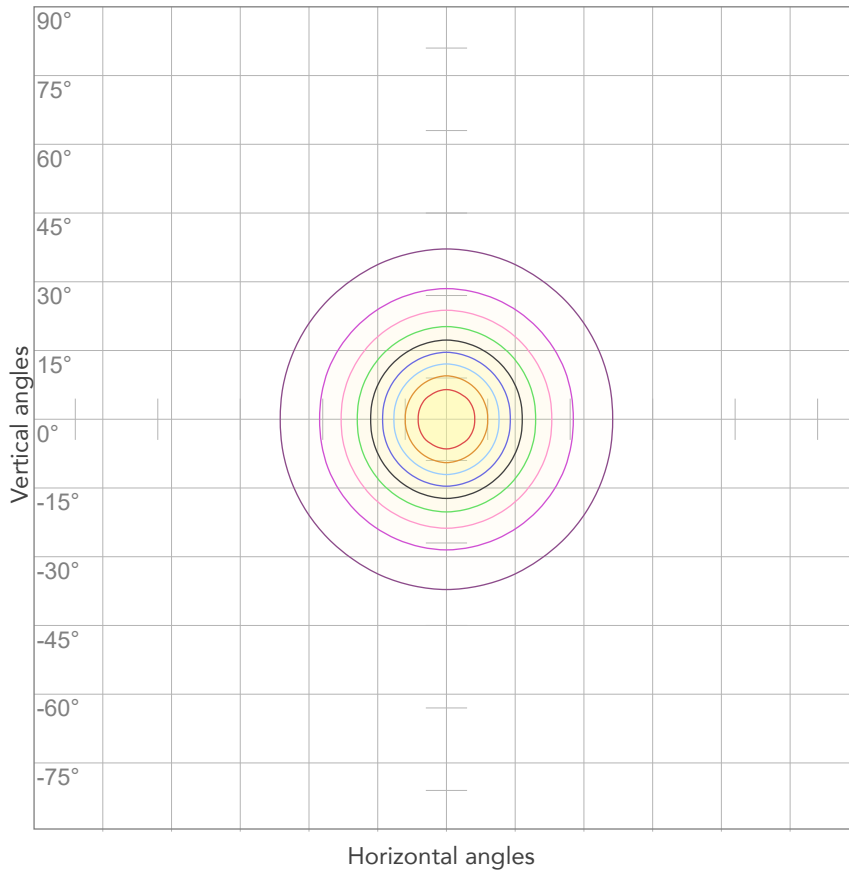
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,119A	22,3W	42lm/W

ISO CANDELA DIAGRAM



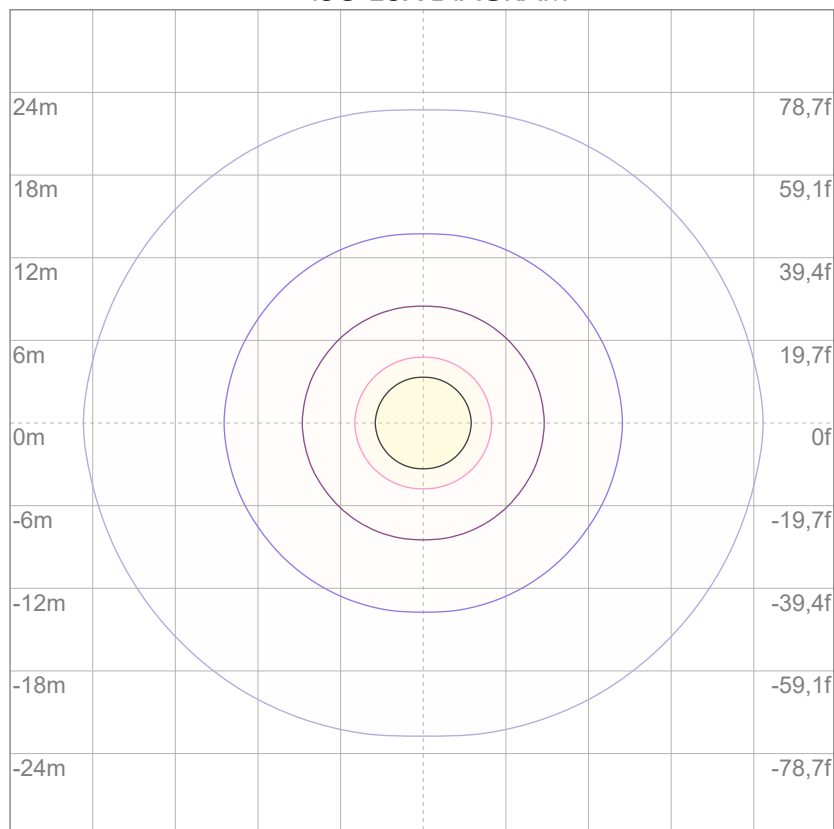
10%	142 cd
20%	284 cd
30%	426 cd
40%	568 cd
50%	710 cd
60%	853 cd
70%	995 cd
80%	1137 cd

Conditions:

Number of c-planes: 4

Candela at center: 1421 cd

ISO LUX DIAGRAM



3%	0,426 lx
5%	0,710 lx
10%	1,42 lx
30%	4,26 lx
50%	7,10 lx

Conditions:

Number of c-planes: 4

Lux at center: 14,2 lx

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

Total lumen output:

1086 lm

Peak candela output:

958 cd

Light quality:

CRI: 80,6

Color temperature:

2813 K



PRODUCT NAME:

ARCSHINEM9VW

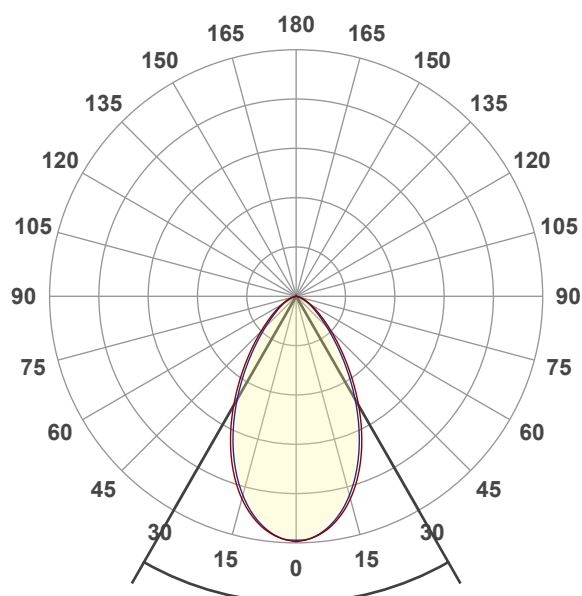
MEASURAMENT CONDITIONS:

Beam angle:
8° + Filter 60°

Target:
Warm White

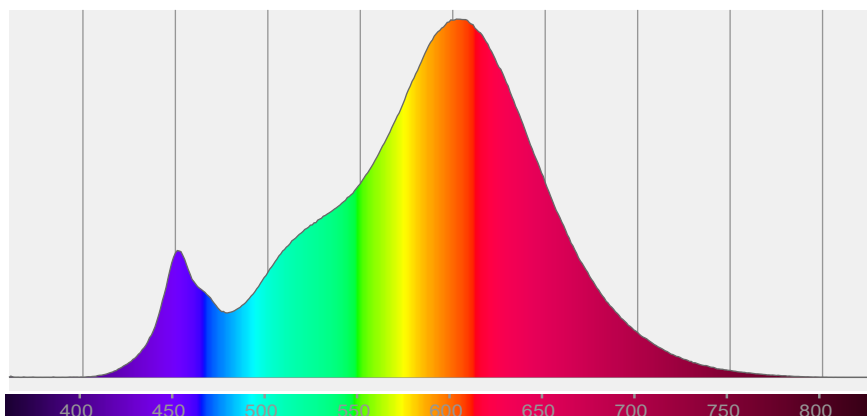
Operator:
Paolo Carvone

Date and time:
08/09/2022 18:21:36

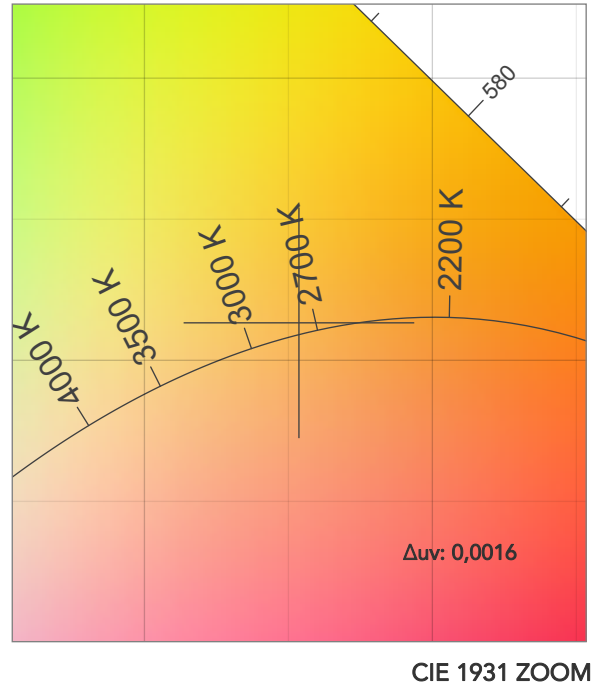
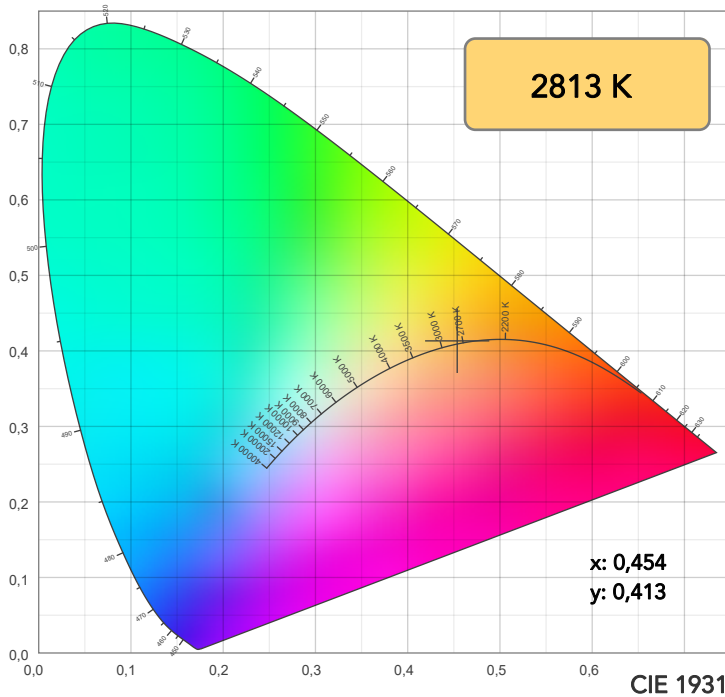


Beam angle 50%: 59,6°
Field angle 10%: 107,8°
Cut off angle 2.5%: 140,2°

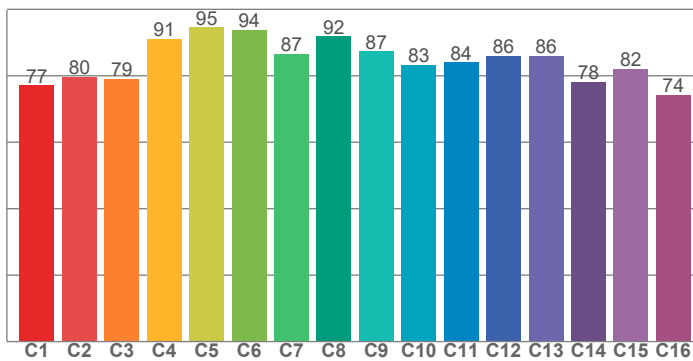
Spectra



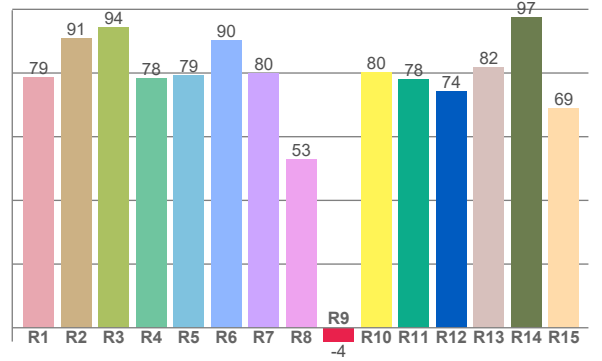
COLOR DETAILS



TM30: 84,6



CRI: 80,6 (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
78,8	90,9	94,4	78,3	79,3	90,4	80,0	52,8	-4,3	80,3	78,1	74,2	81,7	97,4	68,9

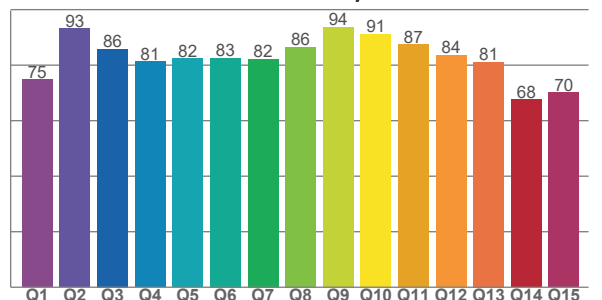
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
77,1	79,6	79,1	91,1	94,6	93,8	86,6	91,9	87,3	83,3	84,0	86,1	85,9	78,2	82,2	74,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,8	93,2	85,8	81,2	82,3	82,5	82,3	86,5	93,7	91,2	87,4	83,5	81,1	67,5	70,2

CQS: 81,2



COLOR PARAMETERS

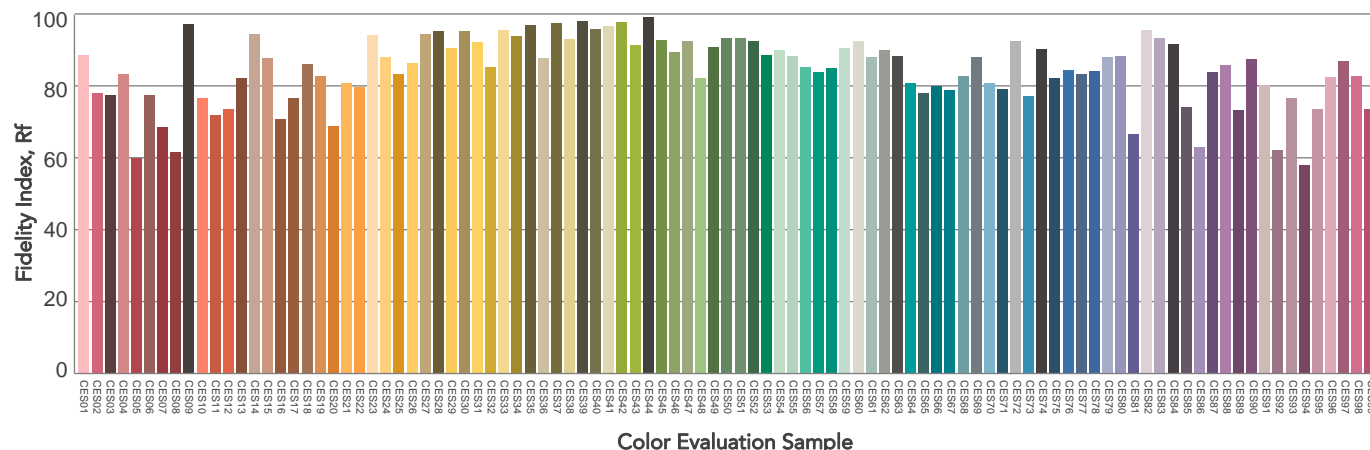
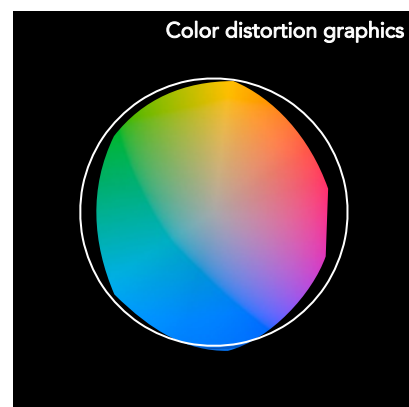
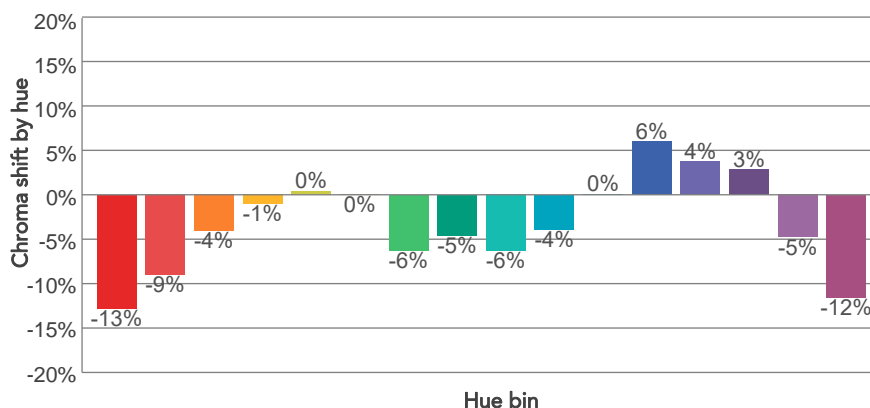
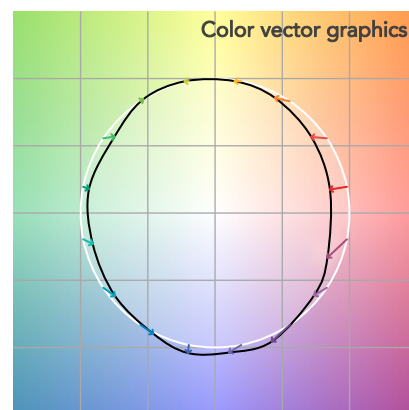
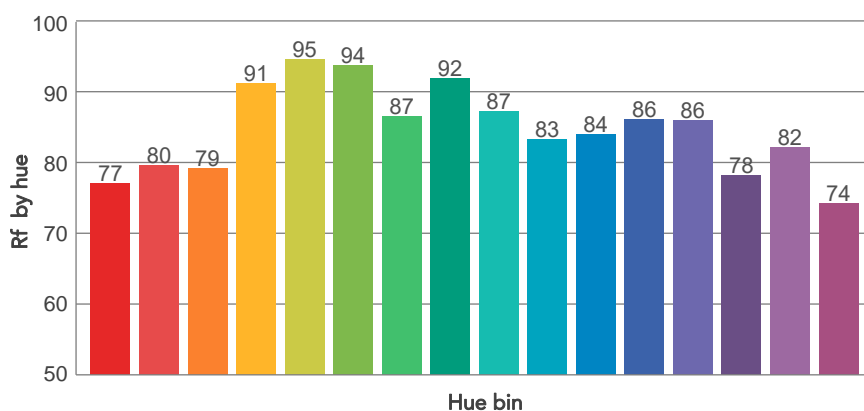
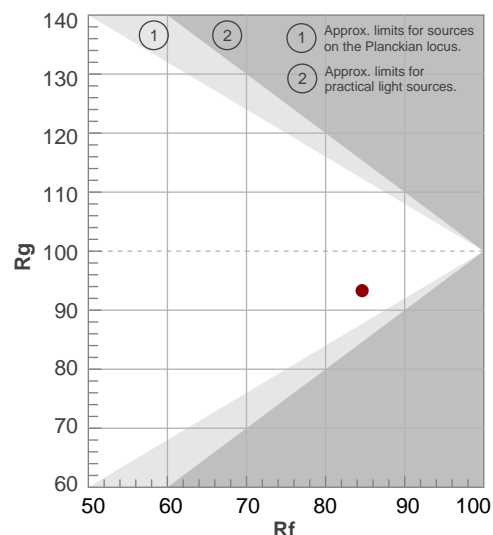
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2813 K	80,6	-4,3	84,6	93,3	81,2	64	0,454	0,413	0,0016

TM30 DETAILS

Rf 84,6
Fidelity index Rf

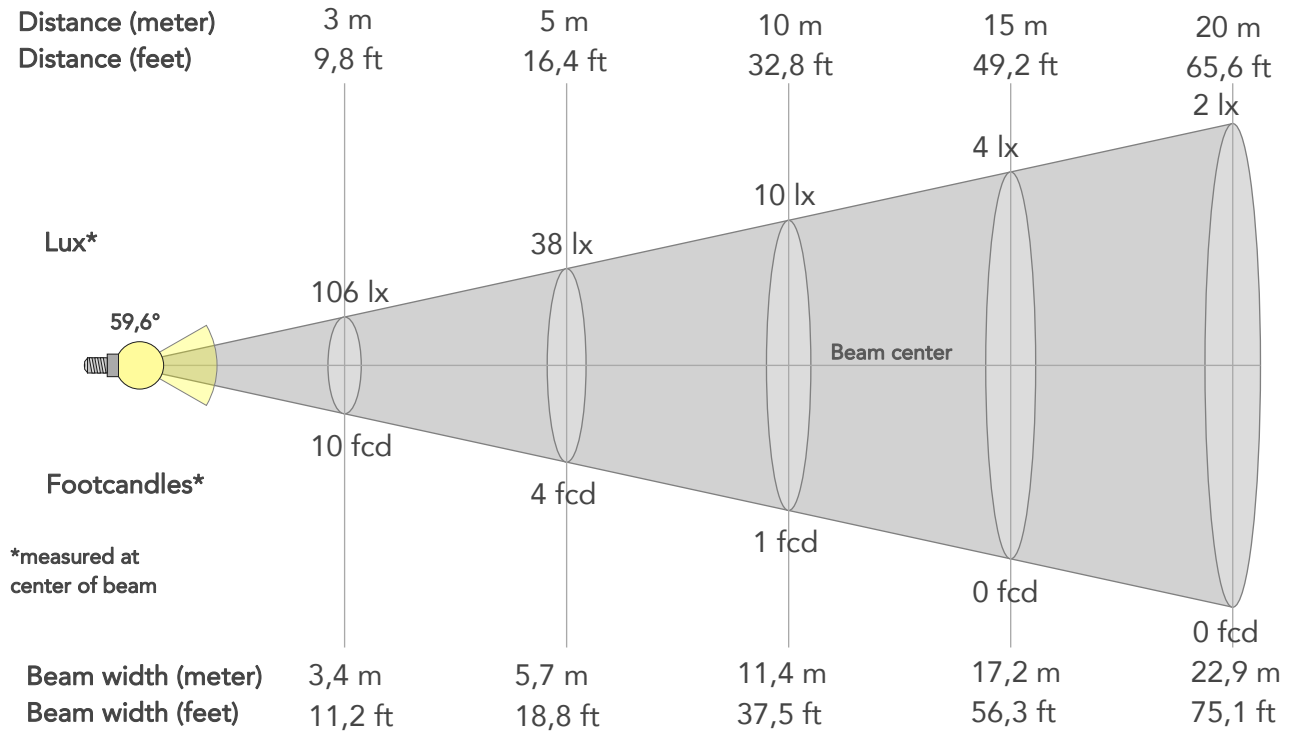
Rg 93,3
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	77	-13%	1%
2	80	-9%	7%
3	79	-4%	10%
4	91	-1%	5%
5	95	0%	3%
6	94	0%	-3%
7	87	-6%	-6%
8	92	-5%	1%
9	87	-6%	5%
10	83	-4%	10%
11	84	0%	12%
12	86	6%	1%
13	86	4%	-10%
14	78	3%	-18%
15	82	-5%	-10%
16	74	-12%	-16%



BEAM DETAILS

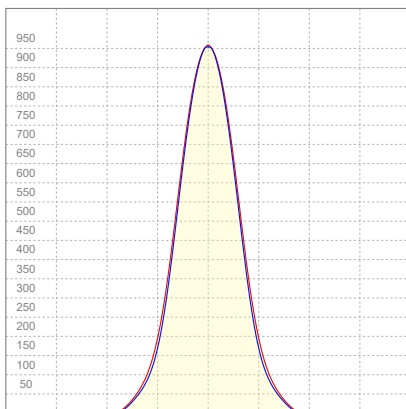
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
59,6°	107,8°	140,2°	95,0%	81,9%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	956lx	239lx	106lx	60lx	38lx	17lx	10lx	4lx	2lx	2lx	1lx	1lx	0lx
Footcand.	89fcd	22fcd	10fcd	6fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,3m	3,4m	4,6m	5,7m	8,6m	11,4m	17,2m	22,9m	28,6m	34,3m	45,8m	57,2m
Beam wid.	3,8ft	7,6ft	11,2ft	15ft	18,8ft	28,2ft	37,5ft	56,3ft	75,1ft	93,9ft	112,6ft	150,2ft	187,7ft

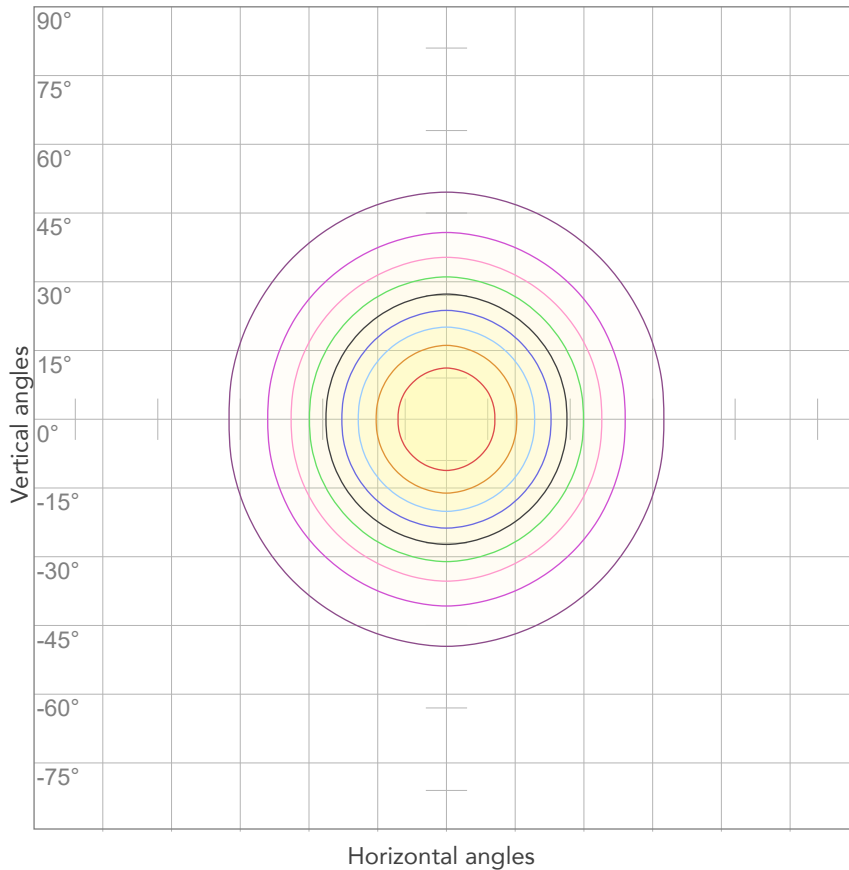
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,119A	22,3W	49lm/W

ISO CANDELA DIAGRAM



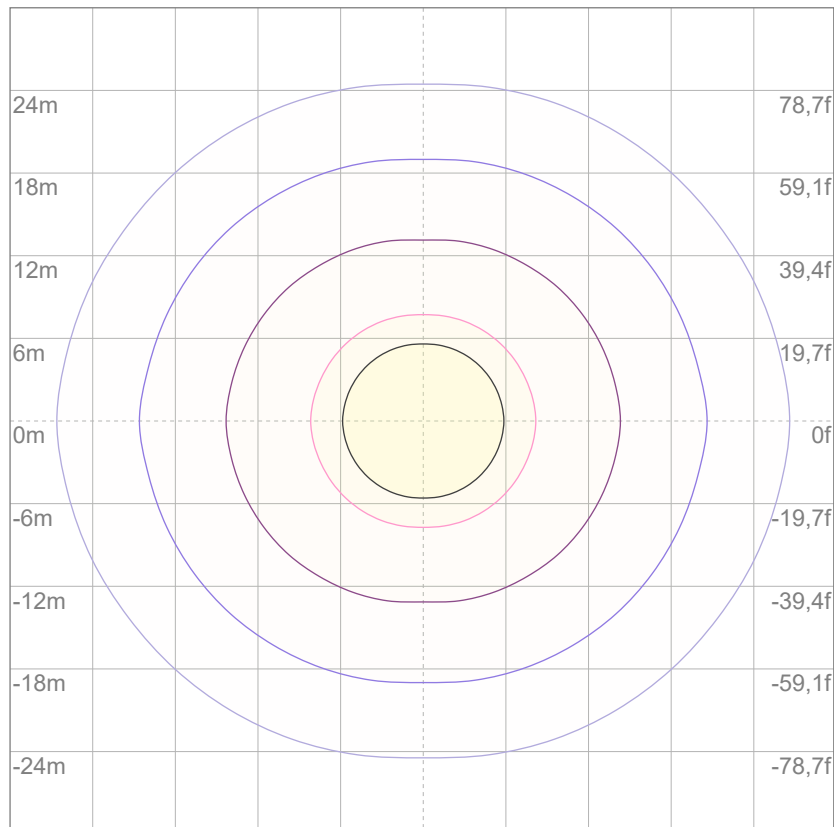
10%	96 cd
20%	191 cd
30%	287 cd
40%	382 cd
50%	478 cd
60%	574 cd
70%	669 cd
80%	765 cd

Conditions:

Number of c-planes: 4

Candela at center: 956 cd

ISO LUX DIAGRAM



3%	0,287 lx
5%	0,478 lx
10%	0,956 lx
30%	2,87 lx
50%	4,78 lx

Conditions:

Number of c-planes: 4

Lux at center: 9,56 lx

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

Total lumen output:

1621 lm

Peak candela output:

2229 cd

Light quality:

CRI: 80,7

Color temperature:

2819 K



PRODUCT NAME:

ARCSHINEM9VW

MEASURAMENT CONDITIONS:

Beam angle:

8° + Filter 10°x60°

Target:

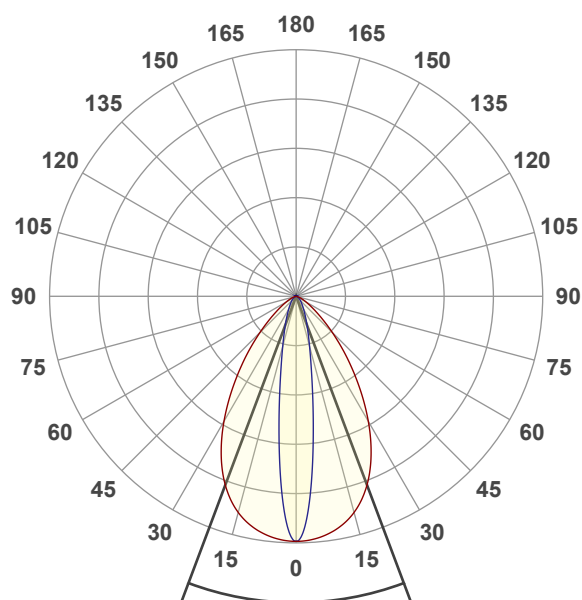
Warm White

Operator:

Paolo Carvone

Date and time:

08/09/2022 18:28:23

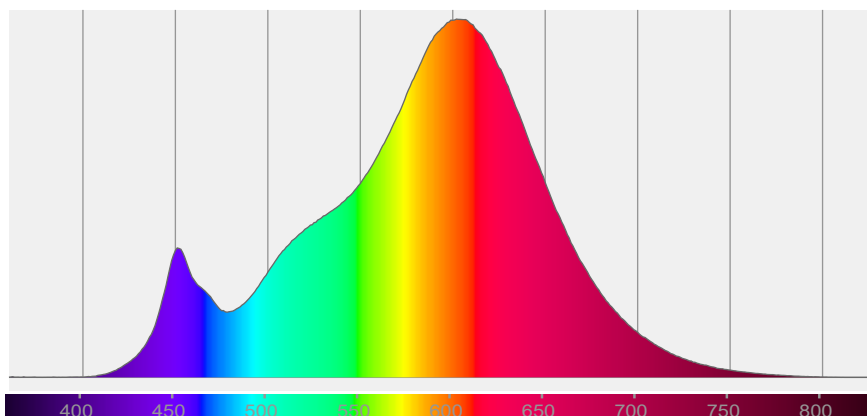


Beam angle 50%: 41,2°

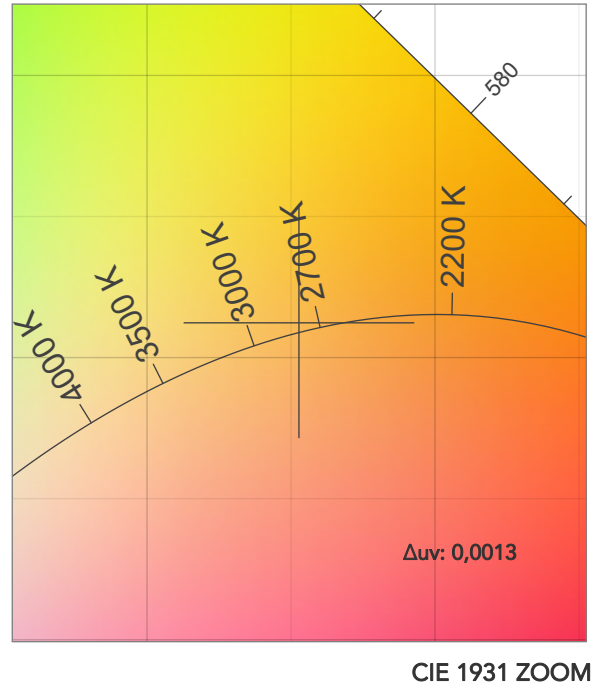
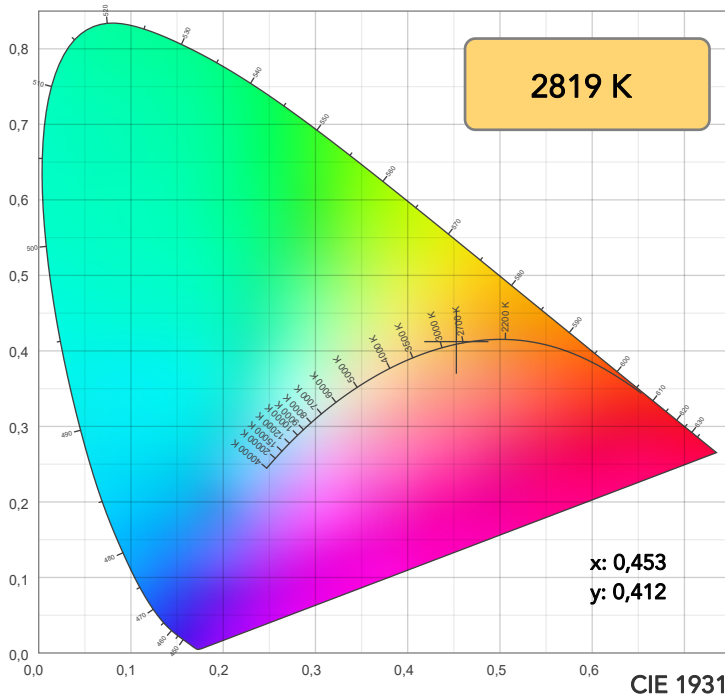
Field angle 10%: 76,1°

Cut off angle 2.5%: 110,9°

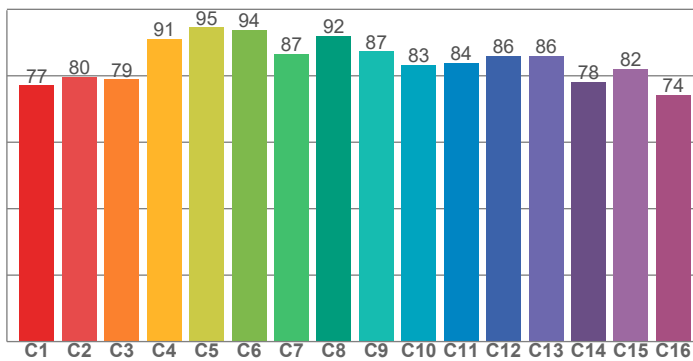
Spectra



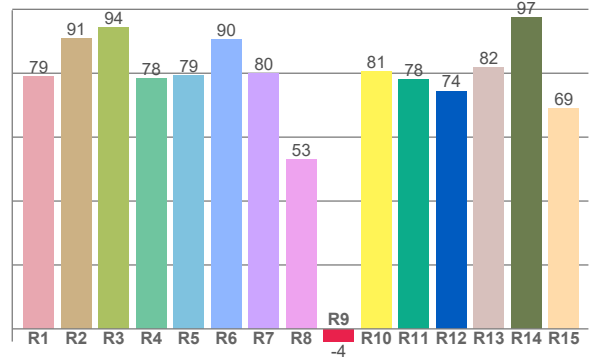
COLOR DETAILS



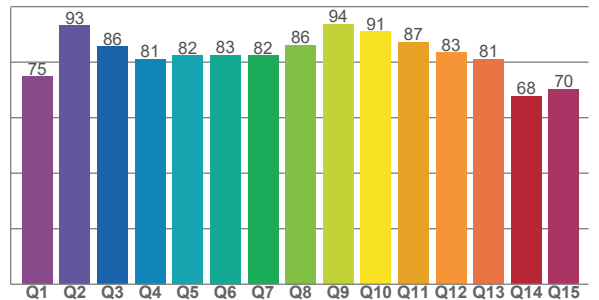
TM30: 84,6



CRI: 80,7 (R1-R8)



CQS: 81,2



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
78,9	91,0	94,3	78,4	79,4	90,5	79,9	52,9	-4,0	80,6	78,2	74,5	81,8	97,4	69,1

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
77,2	79,6	78,9	91,0	94,6	93,7	86,6	92,0	87,4	83,3	83,9	86,0	85,9	78,2	82,2	74,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,9	93,2	85,7	81,1	82,3	82,6	82,3	86,2	93,7	91,0	87,3	83,4	81,0	67,7	70,2

COLOR PARAMETERS

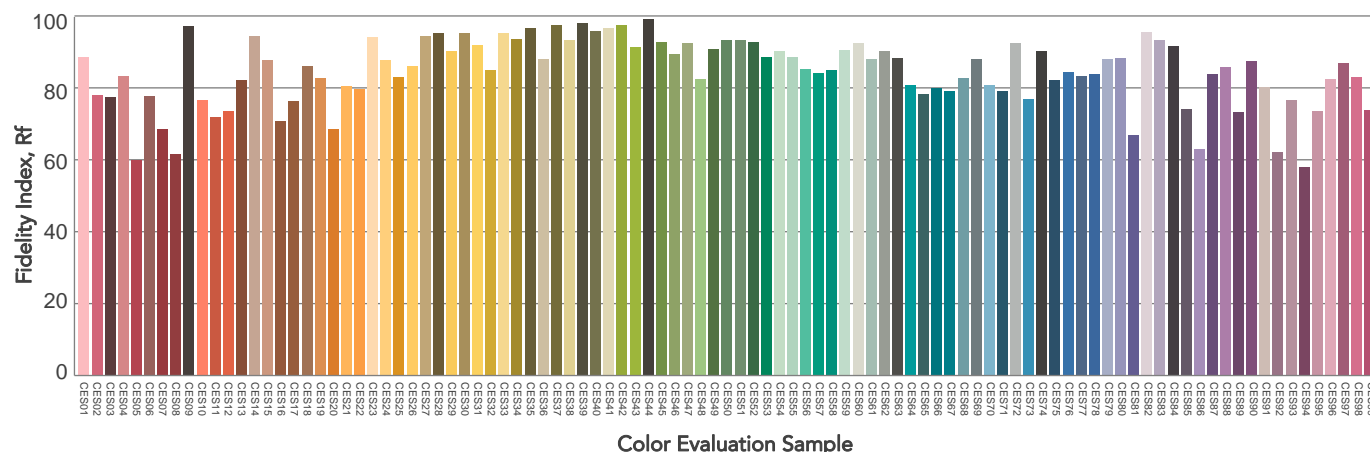
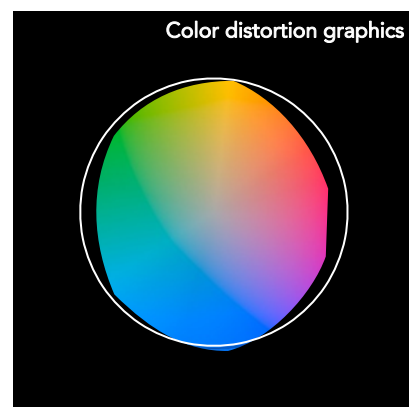
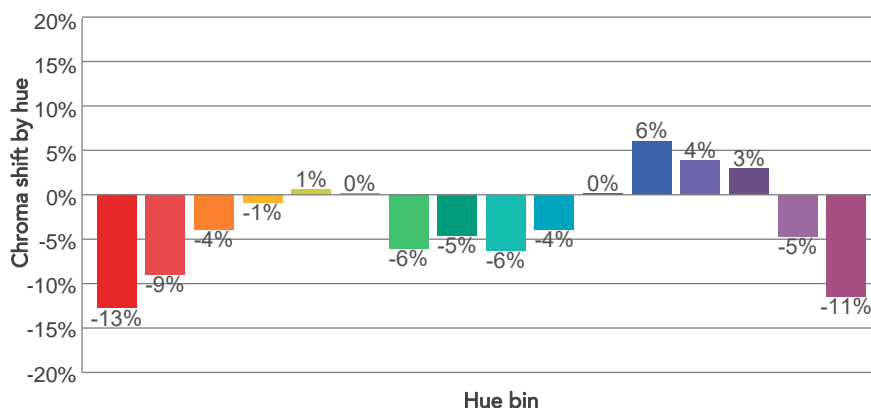
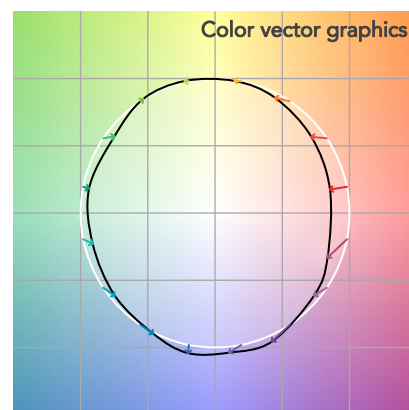
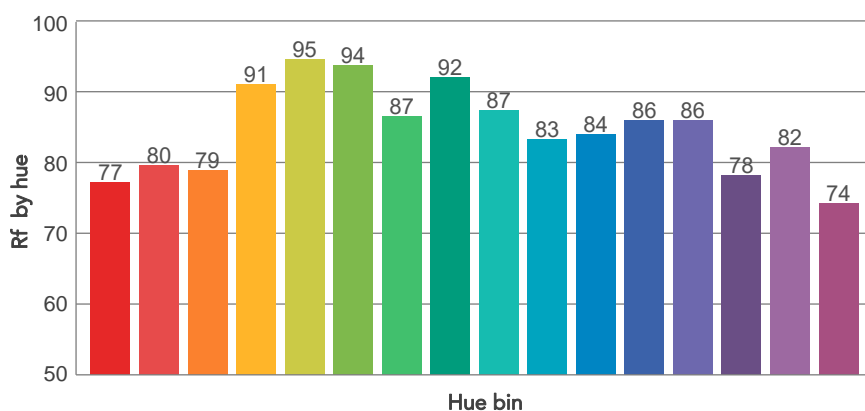
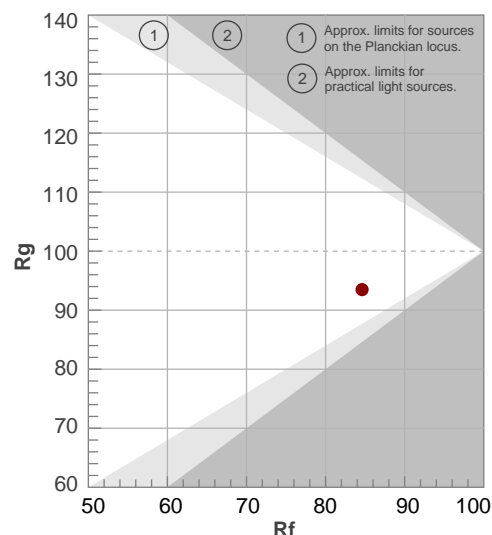
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2819 K	80,7	-4,0	84,6	93,5	81,2	64	0,453	0,412	0,0013

TM30 DETAILS

Rf 84,6
Fidelity index Rf

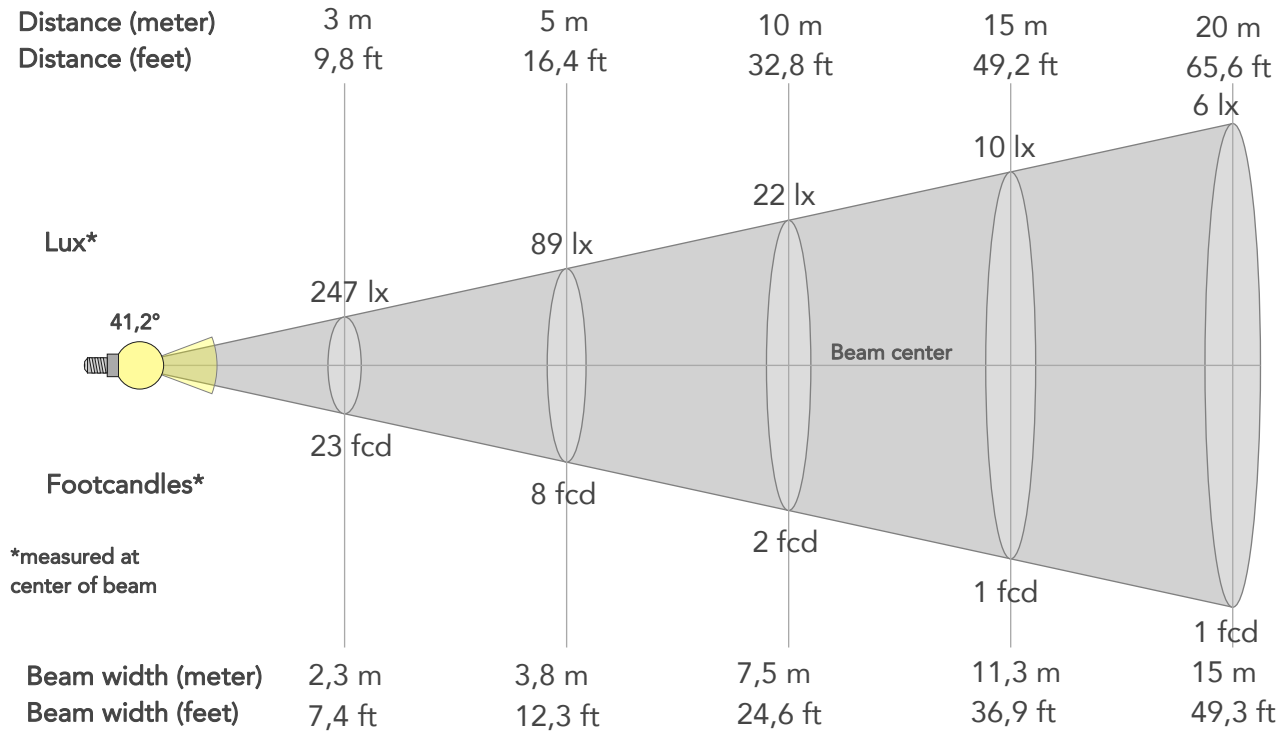
Rg 93,5
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	77	-13%	0%
2	80	-9%	7%
3	79	-4%	10%
4	91	-1%	5%
5	95	1%	3%
6	94	0%	-3%
7	87	-6%	-6%
8	92	-5%	1%
9	87	-6%	5%
10	83	-4%	10%
11	84	0%	12%
12	86	6%	1%
13	86	4%	-10%
14	78	3%	-18%
15	82	-5%	-10%
16	74	-11%	-16%



BEAM DETAILS

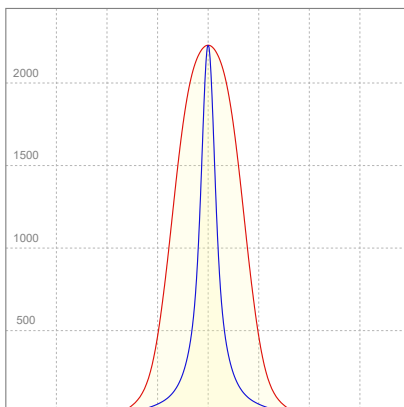
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
41,2°	76,1°	110,9°	97,1%	86,0%



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	2226lx	557lx	247lx	139lx	89lx	40lx	22lx	10lx	6lx	4lx	2lx	1lx	1lx
Footcand.	207fcd	52fcd	23fcd	13fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,8m	1,5m	2,3m	3m	3,8m	5,6m	7,5m	11,3m	15m	18,8m	22,5m	30m	37,5m
Beam wid.	2,5ft	5ft	7,4ft	9,8ft	12,3ft	18,5ft	24,6ft	36,9ft	49,3ft	61,6ft	73,9ft	98,5ft	123,2ft

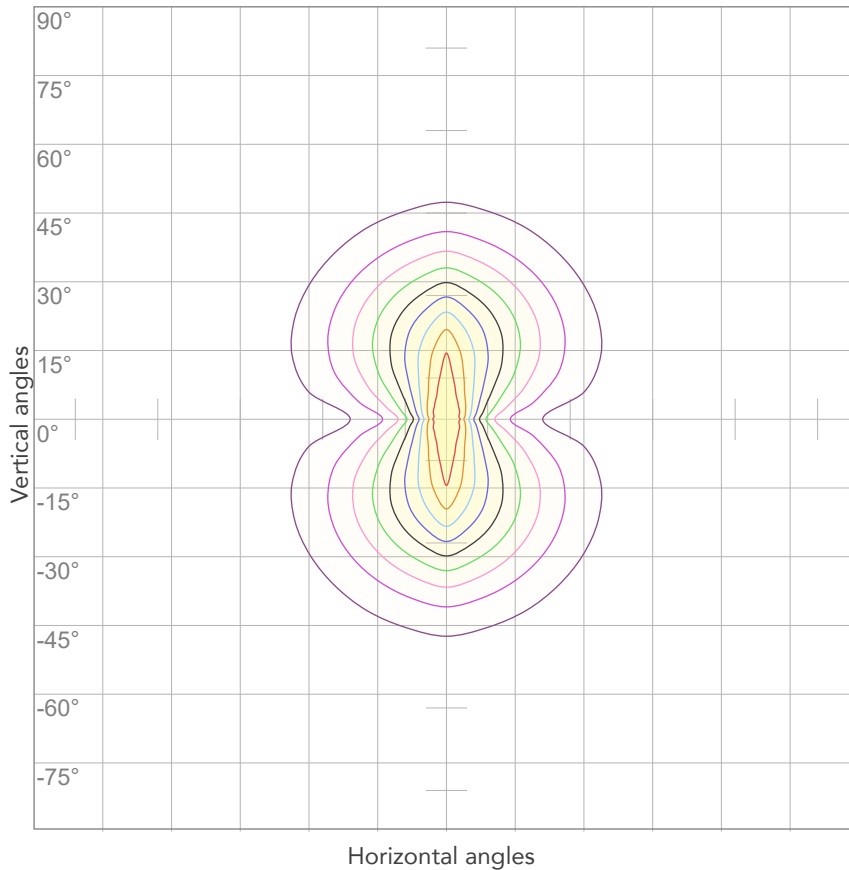
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,119A	22,3W	73lm/W

ISO CANDELA DIAGRAM



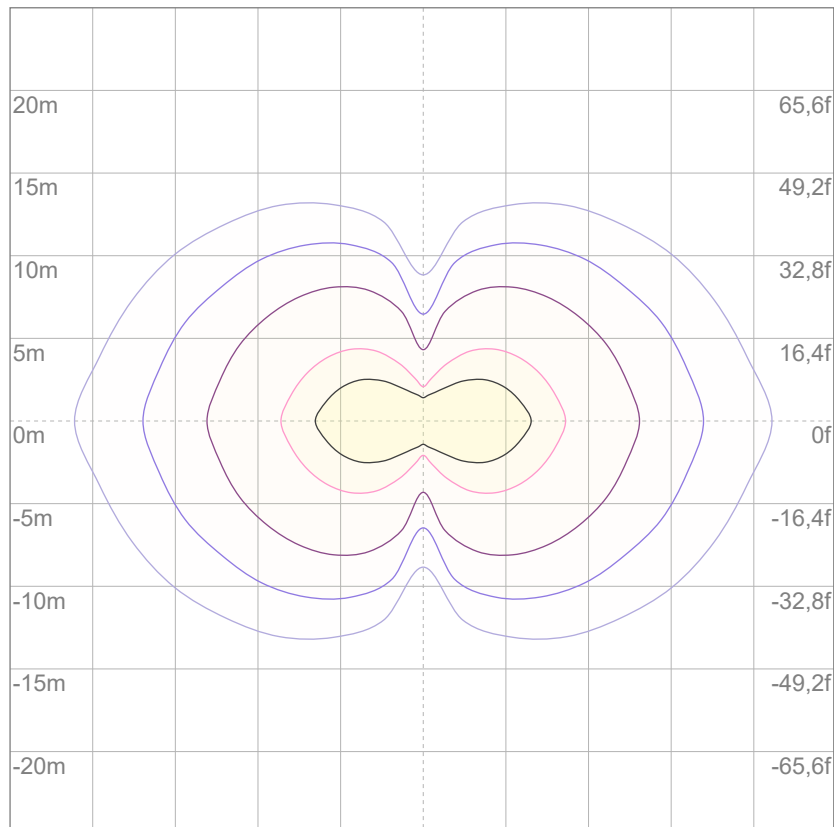
10%	223 cd
20%	445 cd
30%	668 cd
40%	891 cd
50%	1113 cd
60%	1336 cd
70%	1558 cd
80%	1781 cd

Conditions:

Number of c-planes: 4

Candela at center: 2226 cd

ISO LUX DIAGRAM



3%	0,668 lx
5%	1,11 lx
10%	2,23 lx
30%	6,68 lx
50%	11,1 lx

Conditions:

Number of c-planes: 4

Lux at center: 22,3 lx

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

Total lumen output:

1174 lm

Peak candela output:

1217 cd

Light quality:

CRI: 80,6

Color temperature:

2808 K



PRODUCT NAME:

ARCSHINEM9VW

MEASURAMENT CONDITIONS:

Beam angle:

8° + Filter 30°x60°

Target:

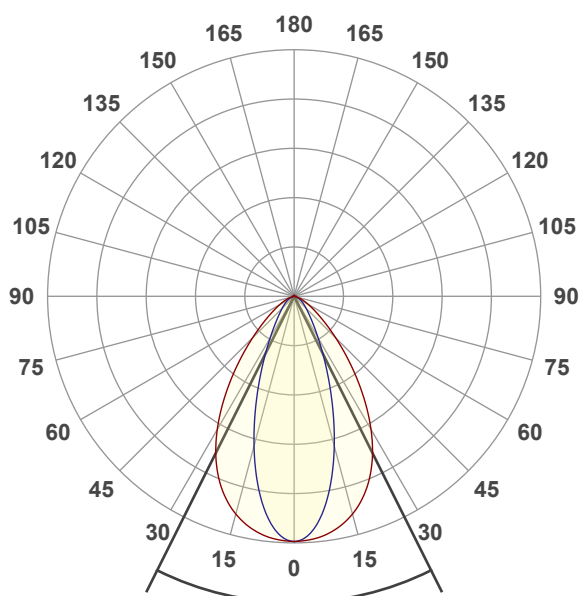
Warm White

Operator:

Paolo Carvone

Date and time:

08/09/2022 18:24:54

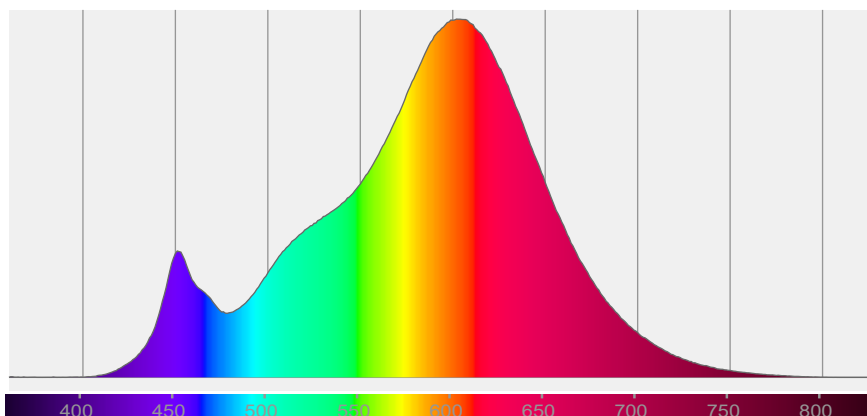


Beam angle 50%: 53,1°

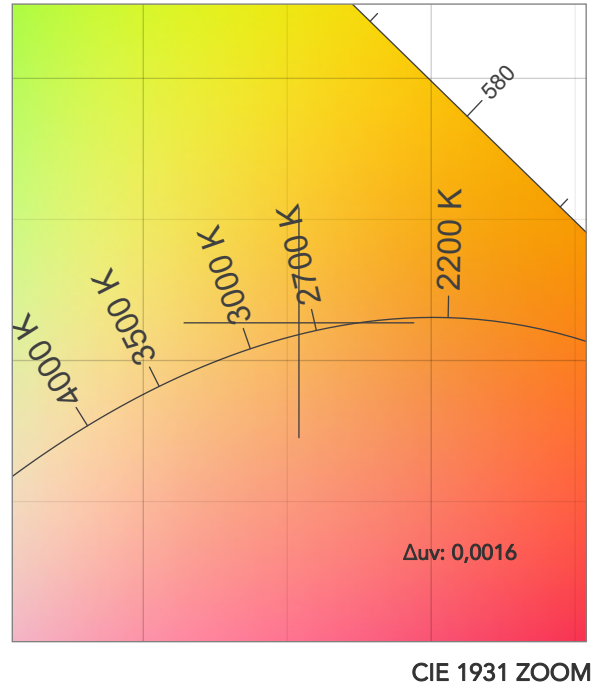
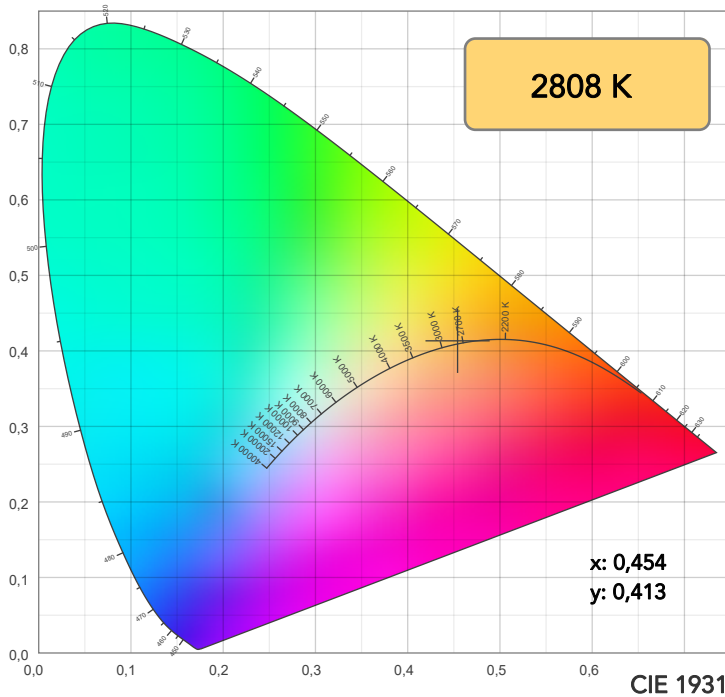
Field angle 10%: 94,3°

Cut off angle 2.5%: 131,7°

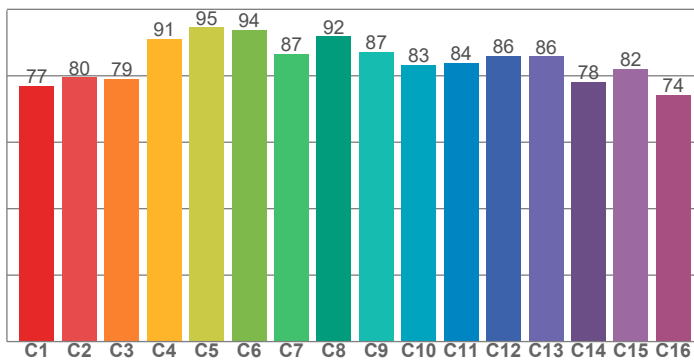
Spectra



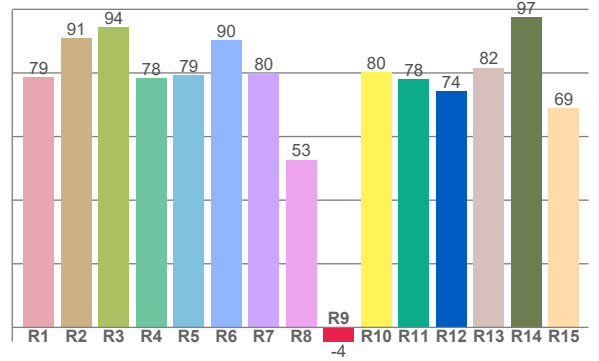
COLOR DETAILS



TM30: 84,6



CRI: 80,6 (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
78,7	90,9	94,4	78,3	79,2	90,3	79,9	52,7	-4,5	80,3	78,0	74,2	81,6	97,4	68,8

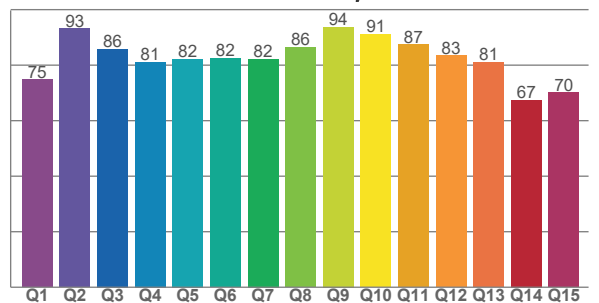
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
77,0	79,5	79,0	91,1	94,6	93,8	86,5	91,9	87,3	83,2	84,0	86,0	85,9	78,1	82,1	74,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,8	93,2	85,8	81,2	82,3	82,4	82,2	86,4	93,7	91,1	87,4	83,5	81,0	67,5	70,1

CQS: 81,2



COLOR PARAMETERS

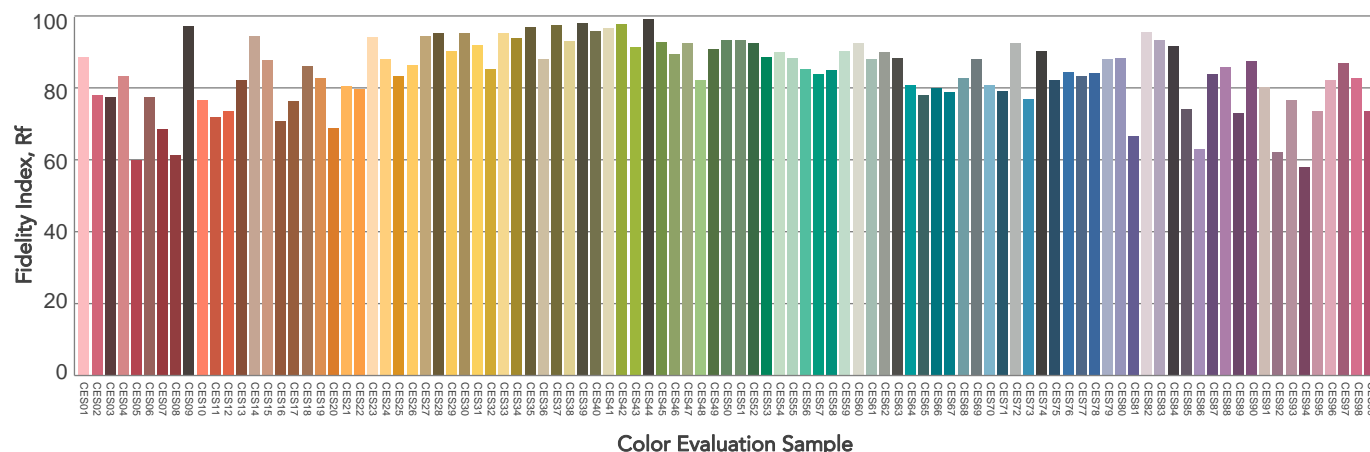
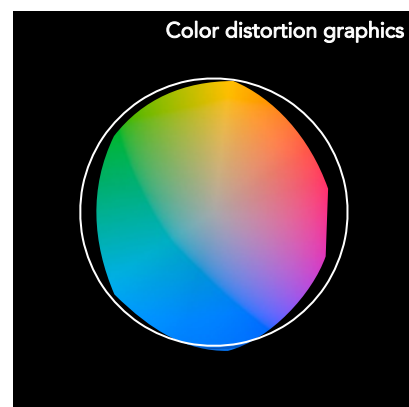
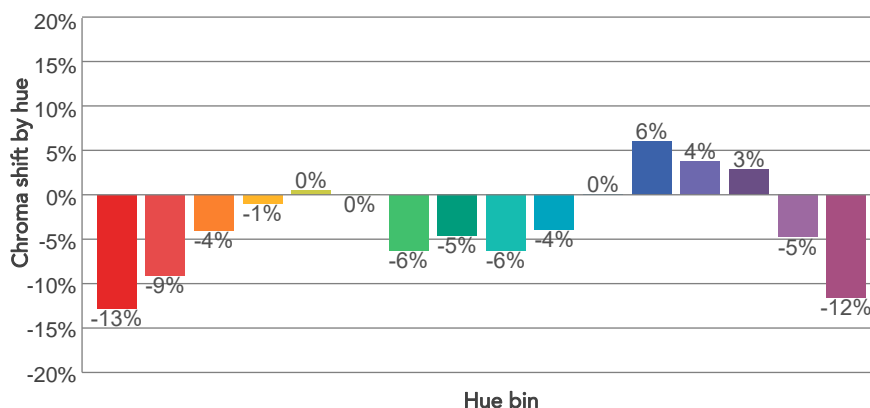
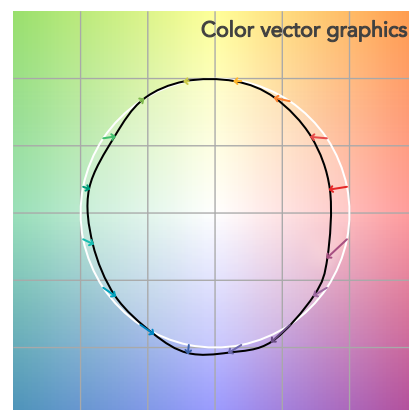
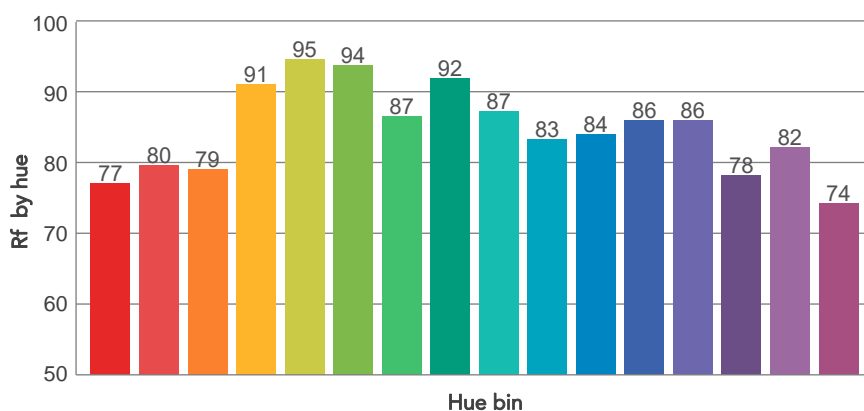
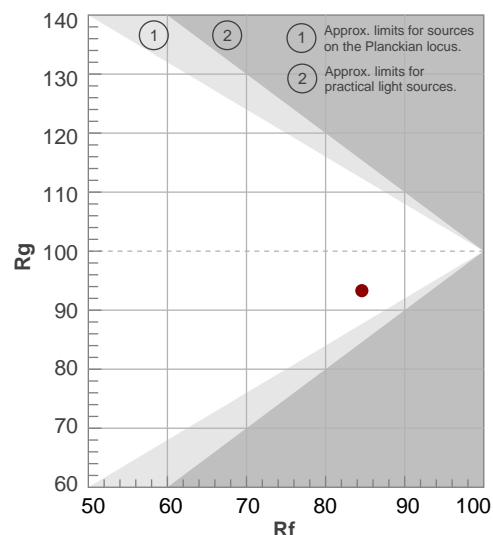
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2808 K	80,6	-4,5	84,6	93,3	81,2	64	0,454	0,413	0,0016

TM30 DETAILS

Rf 84,6
Fidelity index Rf

Rg 93,3
Gammut index

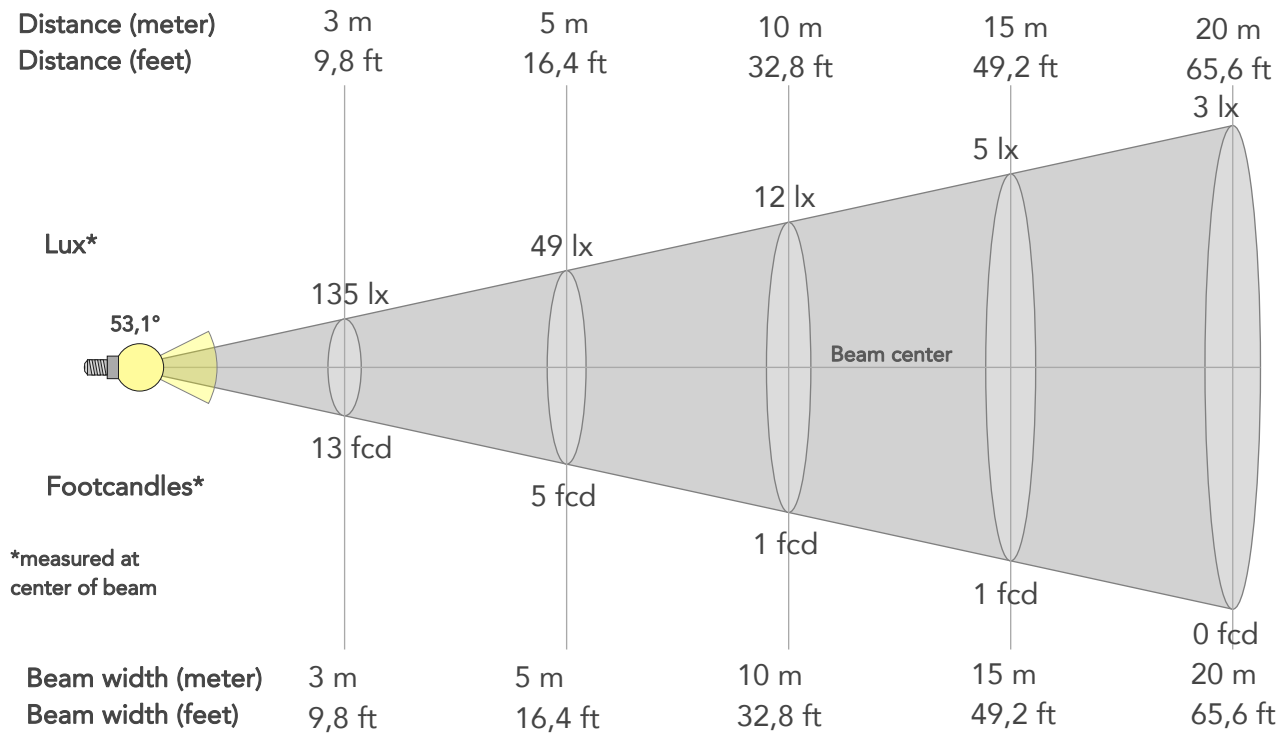
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	77	-13%	1%
2	80	-9%	7%
3	79	-4%	10%
4	91	-1%	5%
5	95	0%	3%
6	94	0%	-3%
7	87	-6%	-6%
8	92	-5%	1%
9	87	-6%	5%
10	83	-4%	10%
11	84	0%	12%
12	86	6%	1%
13	86	4%	-10%
14	78	3%	-18%
15	82	-5%	-10%
16	74	-12%	-16%



BEAM DETAILS



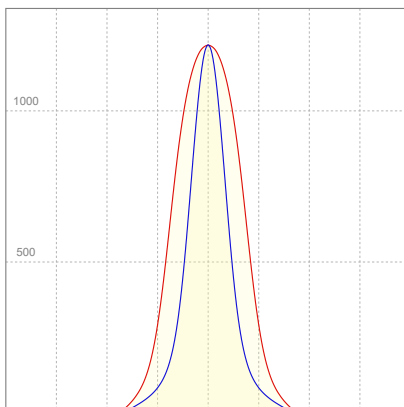
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
53,1°	94,3°	131,7°	95,9%	83,8%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	1217lx	304lx	135lx	76lx	49lx	22lx	12lx	5lx	3lx	2lx	1lx	1lx	0lx
Footcand.	113fcd	28fcd	13fcd	7fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Beam wid.	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,1ft	163,9ft

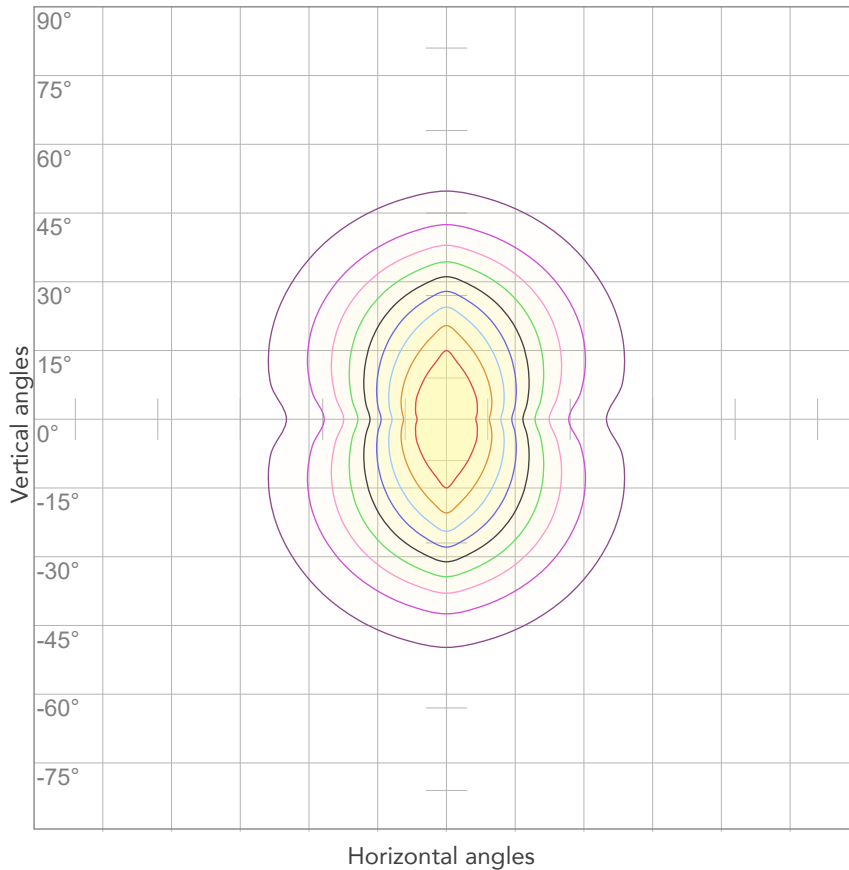
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,119A	22,3W	53lm/W

ISO CANDELA DIAGRAM



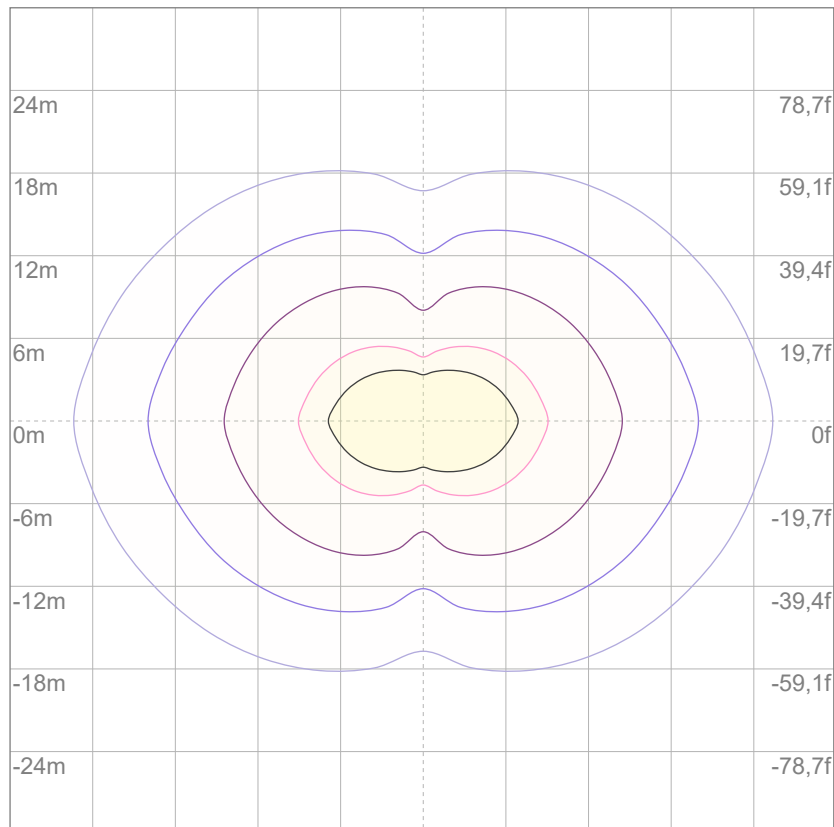
10%	122 cd
20%	243 cd
30%	365 cd
40%	487 cd
50%	608 cd
60%	730 cd
70%	852 cd
80%	974 cd

Conditions:

Number of c-planes: 4

Candela at center: 1217 cd

ISO LUX DIAGRAM



3%	0,365 lx
5%	0,608 lx
10%	1,22 lx
30%	3,65 lx
50%	6,08 lx

Conditions:

Number of c-planes: 4

Lux at center: 12,2 lx

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

Total lumen output:

1297 lm

Peak candela output:

19494 cd

Light quality:

CRI: 83,8

Color temperature:

6915 K



PRODUCT NAME:

ARCSHINEM9VW

MEASURAMENT CONDITIONS:

Beam angle:

8°

Target:

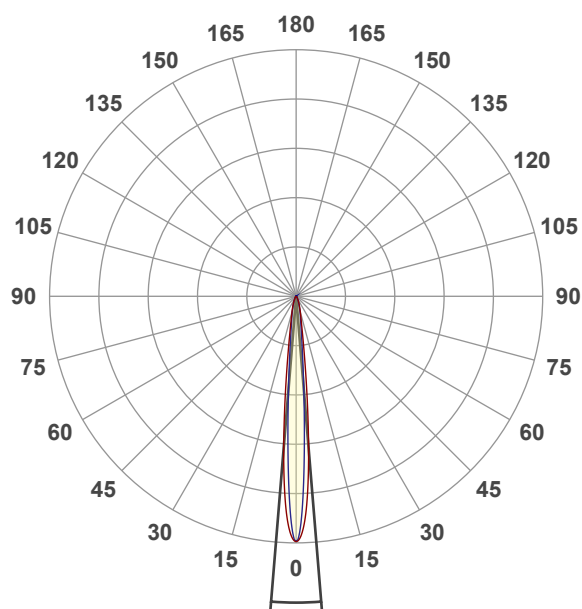
Cold White

Operator:

Paolo Carvone

Date and time:

08/09/2022 18:31:34

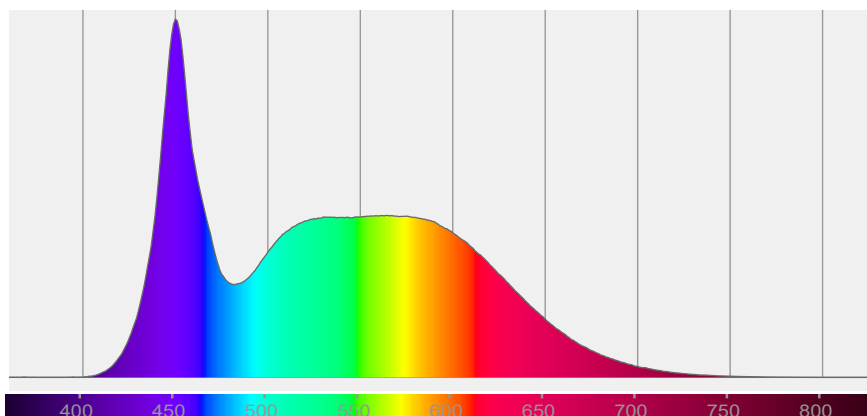


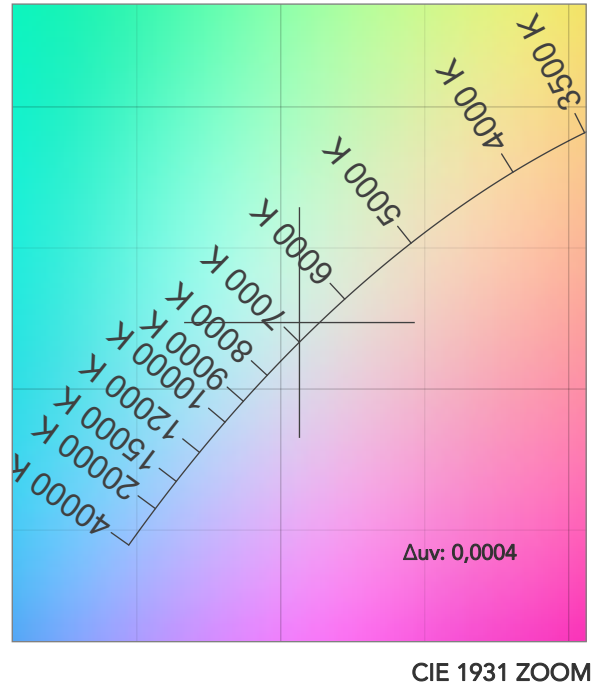
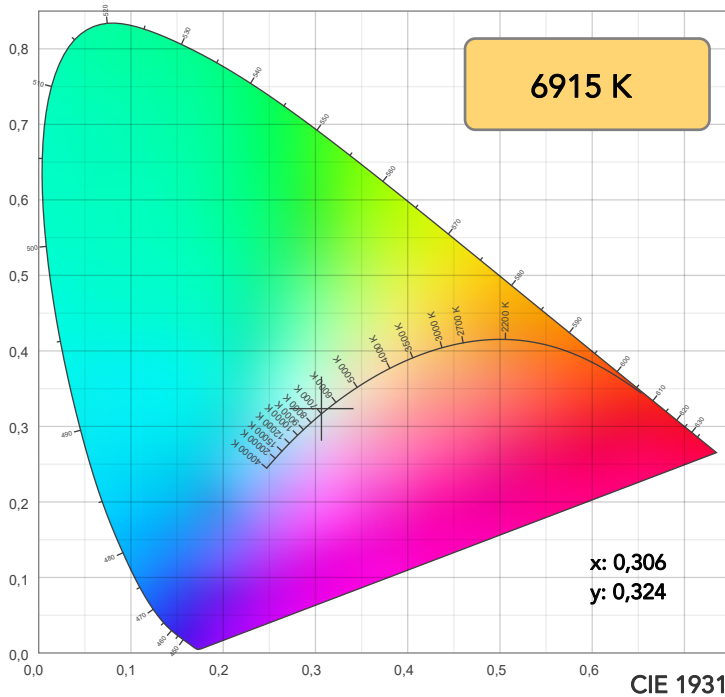
Beam angle 50%: 9,4°

Field angle 10%: 22,4°

Cut off angle 2.5%: 45,3°

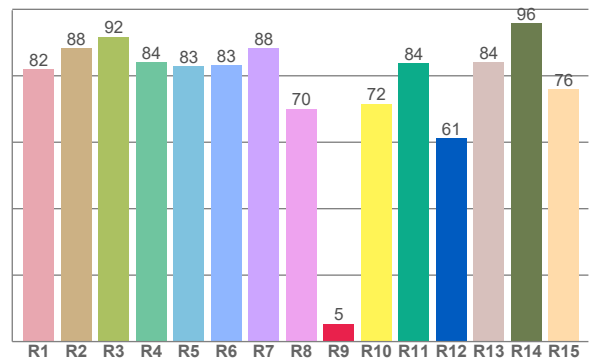
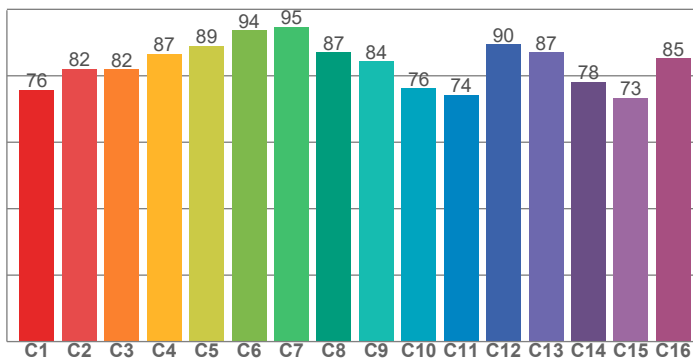
Spectra





TM30: 83,9

CRI: 83,8 (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
82,0	88,2	91,7	84,0	82,9	83,2	88,2	70,1	5,4	71,5	83,8	61,1	84,0	95,8	76,0

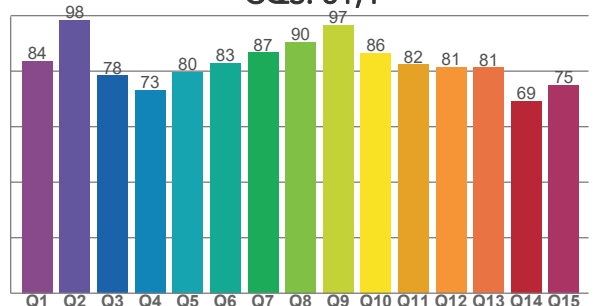
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
75,8	82,1	82,0	86,6	88,9	93,7	94,7	87,1	84,3	76,2	74,2	89,5	87,1	78,2	73,4	85,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
83,7	98,3	78,5	73,1	79,7	83,0	86,7	90,4	96,7	86,5	82,4	81,4	81,3	69,3	75,1

CQS: 81,4



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 deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6915 K	83,8	5,4	83,9	95,2	81,4	70	0,306	0,324	0,0004

TM30 DETAILS

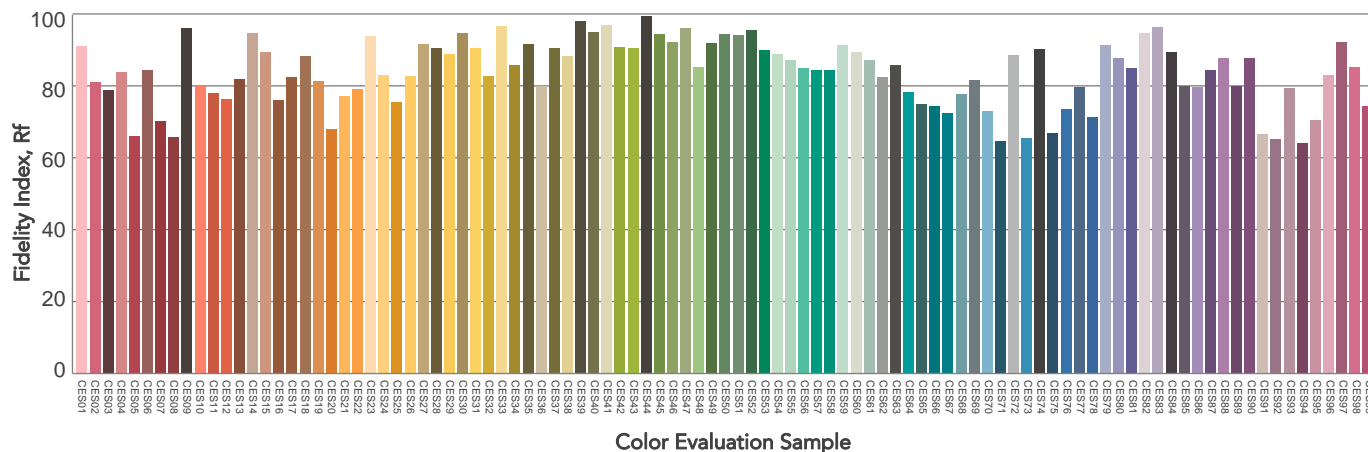
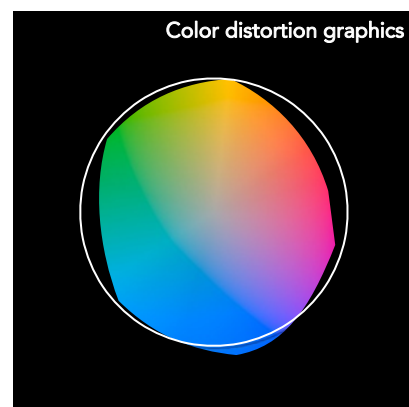
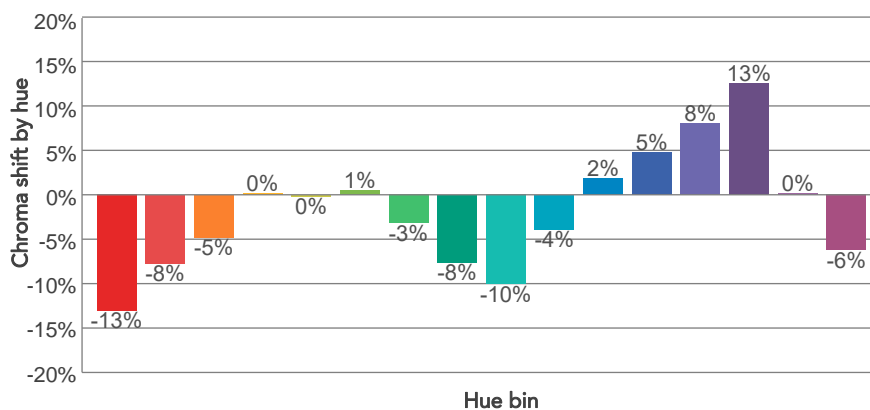
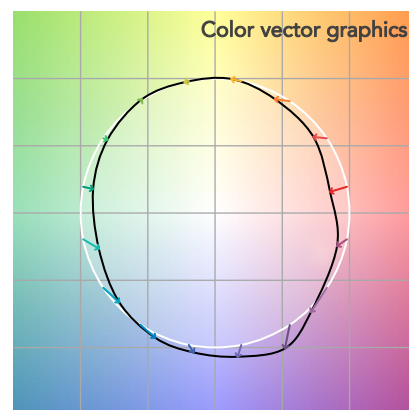
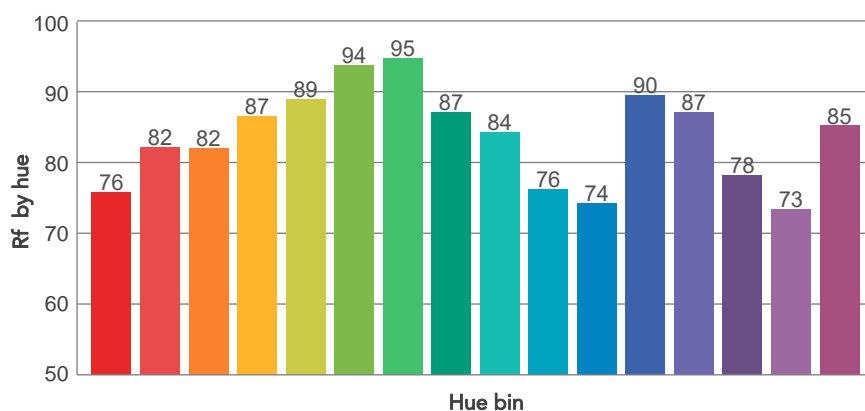
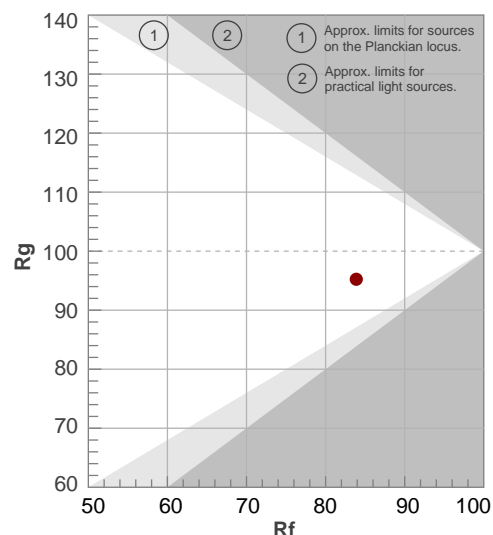
Rf 83,9

Fidelity index Rf

Rg 95,2

Gammut index

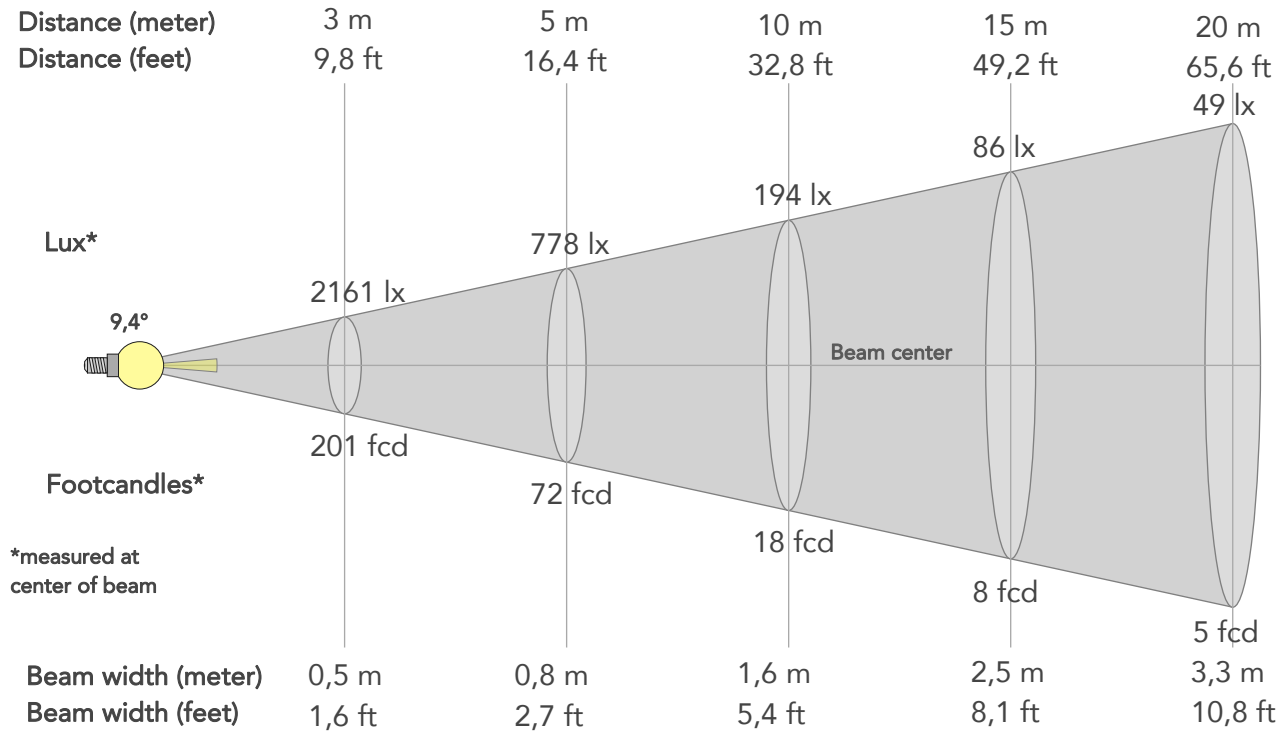
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	76	-13%	-1%
2	82	-8%	6%
3	82	-5%	10%
4	87	0%	8%
5	89	0%	3%
6	94	1%	-2%
7	95	-3%	-1%
8	87	-8%	0%
9	84	-10%	9%
10	76	-4%	16%
11	74	2%	14%
12	90	5%	5%
13	87	8%	-4%
14	78	13%	-13%
15	73	0%	-21%
16	85	-6%	-6%



BEAM DETAILS



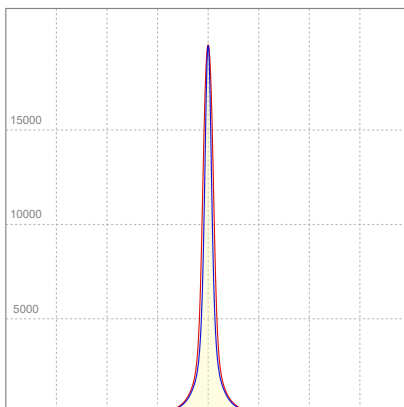
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
9,4°	22,4°	45,3°	100,0%	97,9%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	19448lx	4862lx	2161lx	1216lx	778lx	346lx	194lx	86lx	49lx	31lx	22lx	12lx	8lx
Footcand.	1807fcd	452fcd	201fcd	113fcd	72fcd	32fcd	18fcd	8fcd	5fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,2m	0,3m	0,5m	0,7m	0,8m	1,2m	1,6m	2,5m	3,3m	4,1m	4,9m	6,6m	8,2m
Beam wid.	0,5ft	1,1ft	1,6ft	2,2ft	2,7ft	4ft	5,4ft	8,1ft	10,8ft	13,5ft	16,2ft	21,5ft	26,9ft

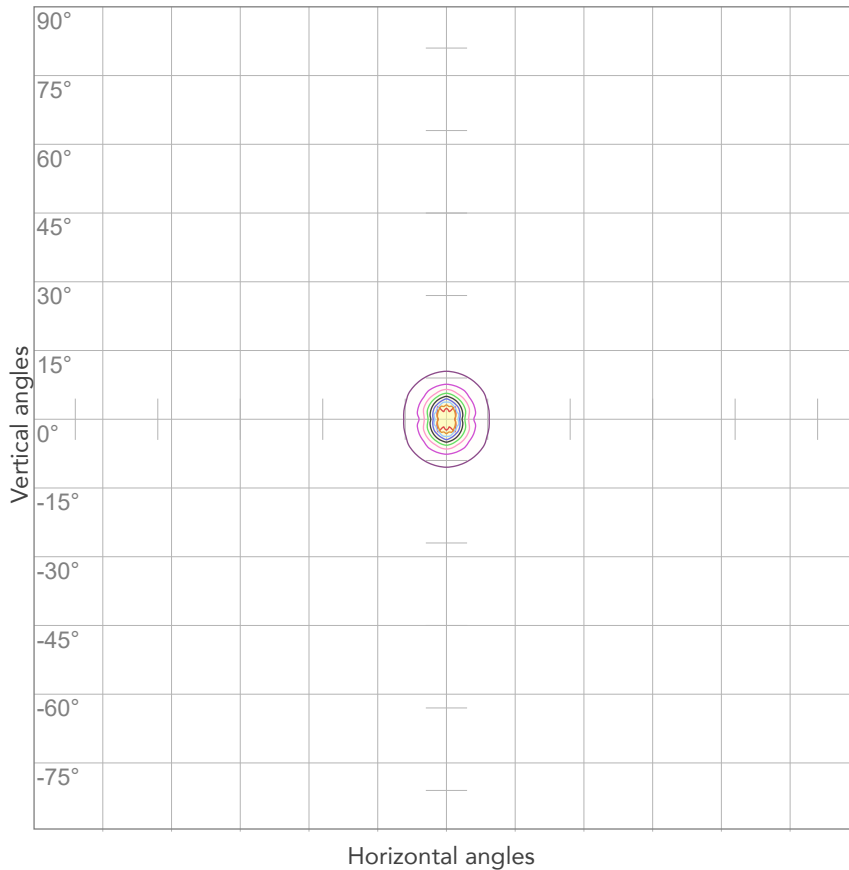
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,120A	22,6W	57lm/W

ISO CANDELA DIAGRAM



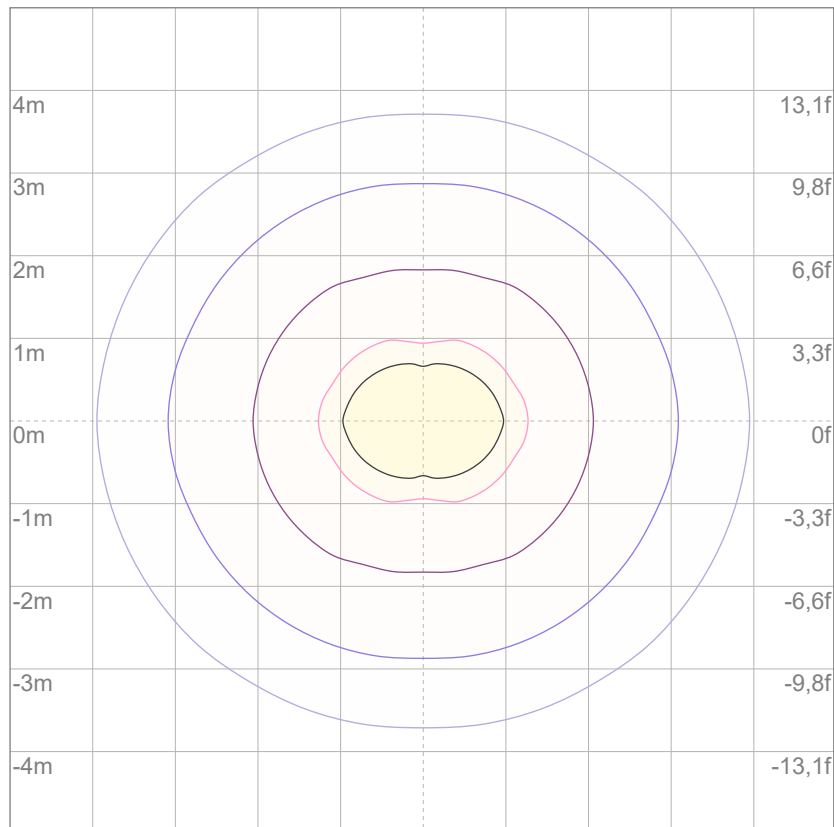
10%	1945 cd
20%	3890 cd
30%	5834 cd
40%	7779 cd
50%	9724 cd
60%	11669 cd
70%	13614 cd
80%	15558 cd

Conditions:

Number of c-planes: 4

Candela at center: 19448 cd

ISO LUX DIAGRAM



3%	5,83 lx
5%	9,72 lx
10%	19,4 lx
30%	58,3 lx
50%	97,2 lx

Conditions:

Number of c-planes: 4

Lux at center: 194 lx

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

Total lumen output:

1258 lm

Peak candela output:

3535 cd

Light quality:

CRI: 83,7

Color temperature:

6891 K



PRODUCT NAME:

ARCSHINEM9VW

MEASURAMENT CONDITIONS:

Beam angle:

8° + Filter 20°

Target:

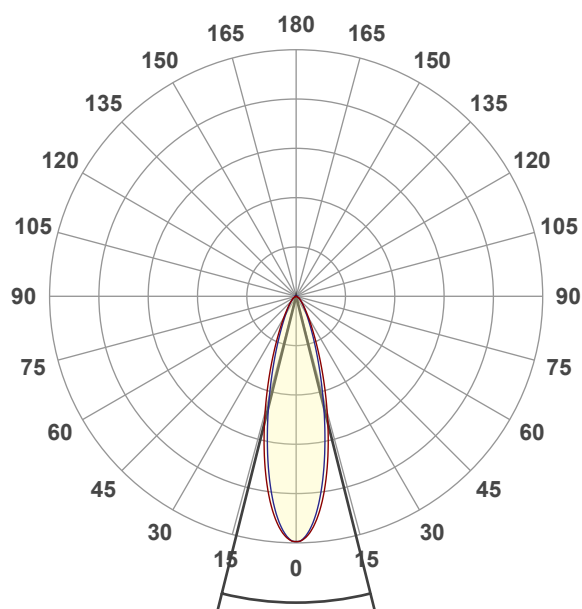
Cold White

Operator:

Paolo Carvone

Date and time:

08/09/2022 18:34:51

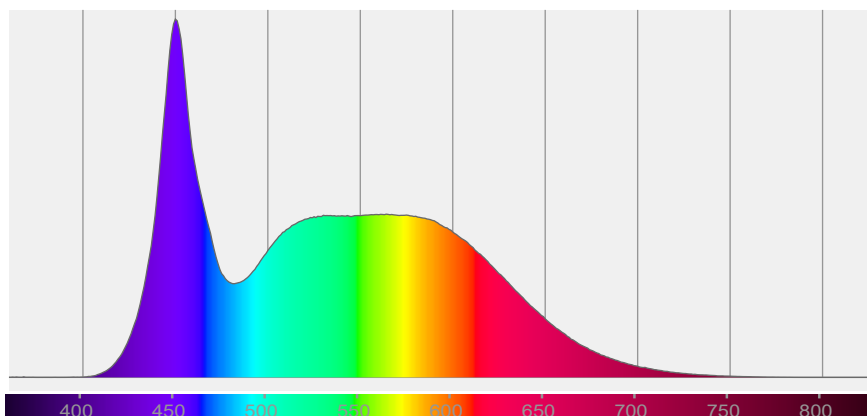


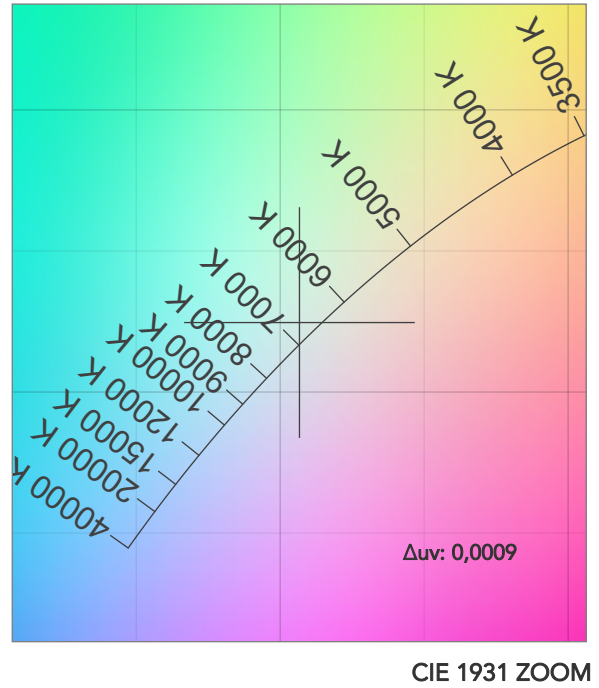
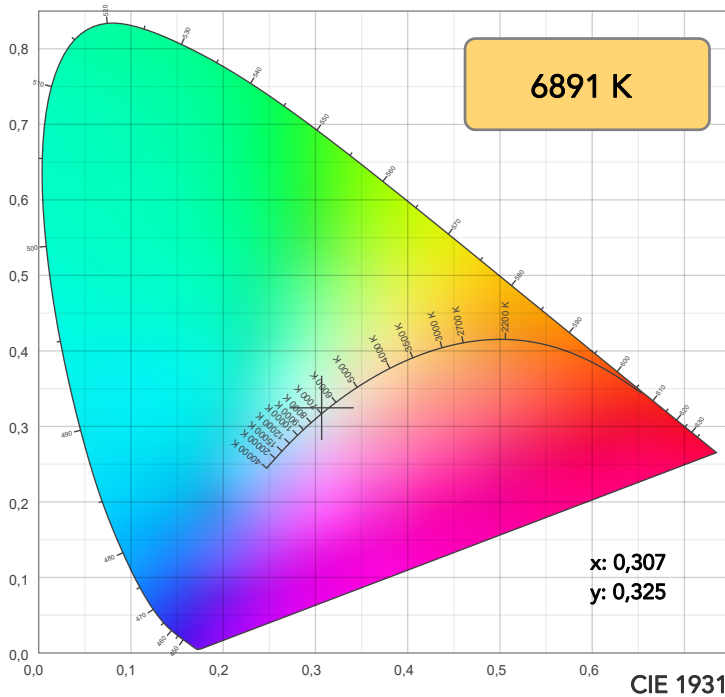
Beam angle 50%: 28,1°

Field angle 10%: 58,4°

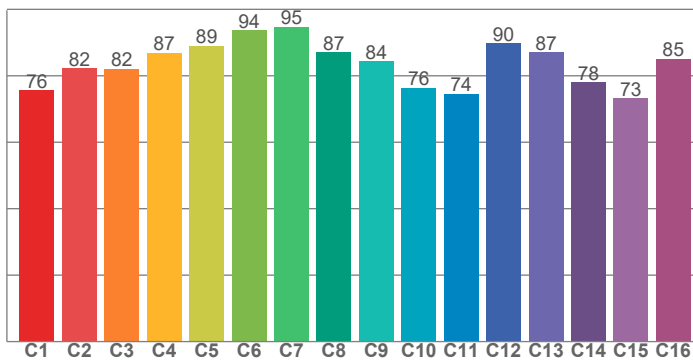
Cut off angle 2.5%: 93,1°

Spectra

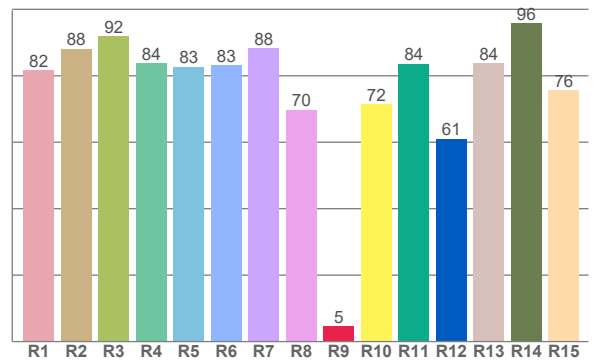




TM30: 83,9



CRI: 83,7 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
81,8	88,2	91,9	83,8	82,7	83,3	88,2	69,8	4,6	71,5	83,6	61,1	83,8	95,9	75,6

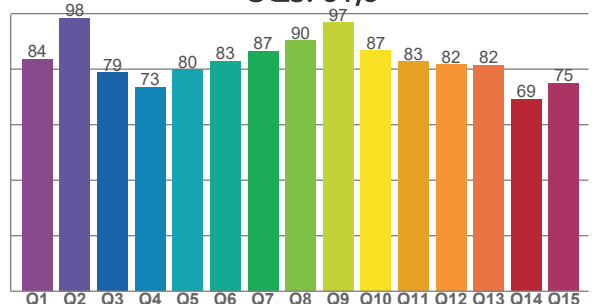
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
75,7	82,2	82,1	86,8	89,1	93,7	94,7	87,0	84,3	76,4	74,5	89,7	87,1	78,0	73,2	85,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
83,6	98,4	78,7	73,5	79,9	83,0	86,6	90,3	96,8	86,7	82,7	81,7	81,5	69,2	74,9

CQS: 81,5



COLOR PARAMETERS

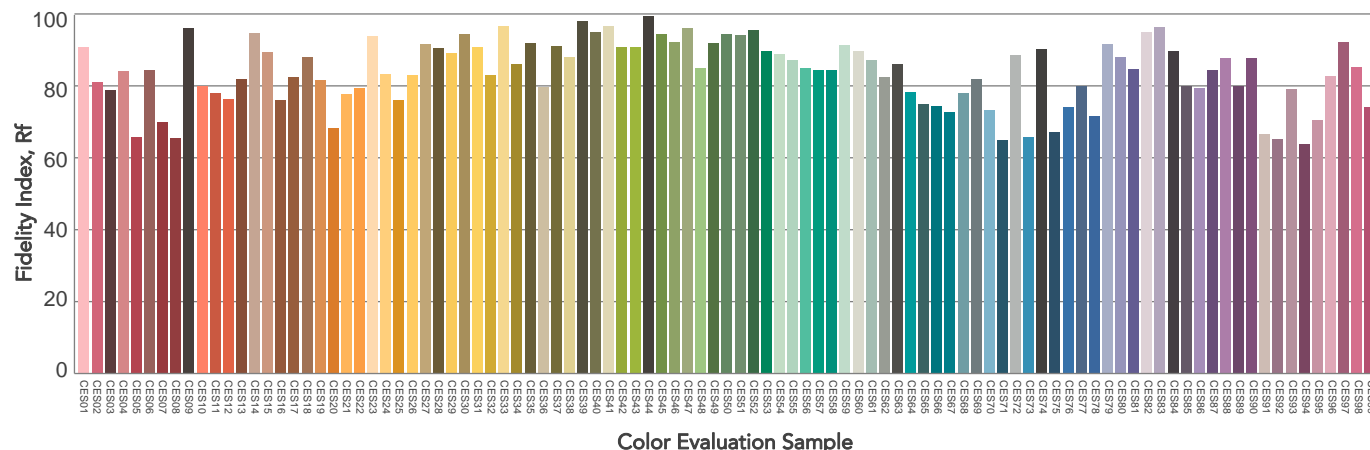
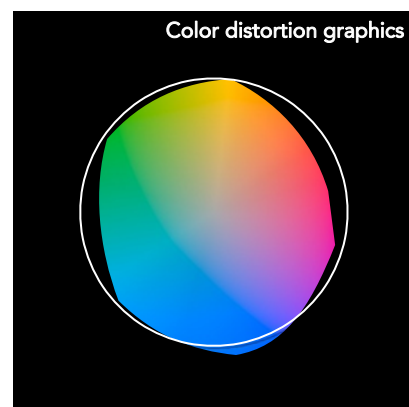
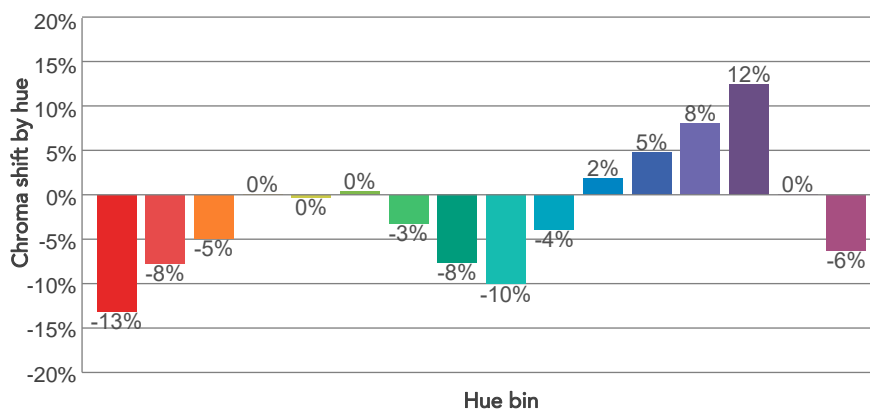
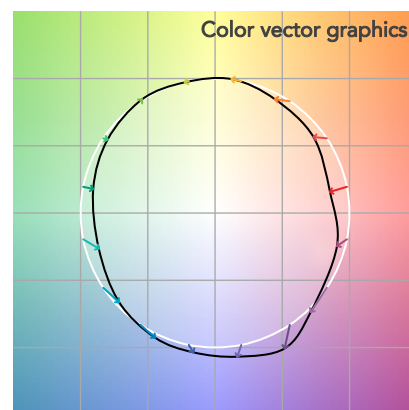
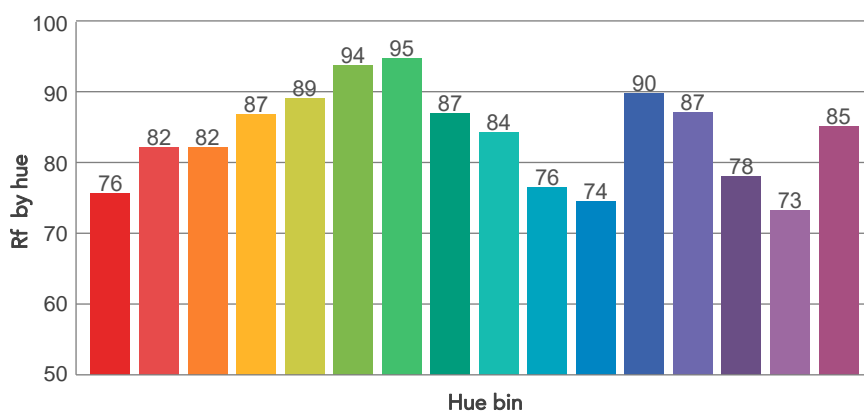
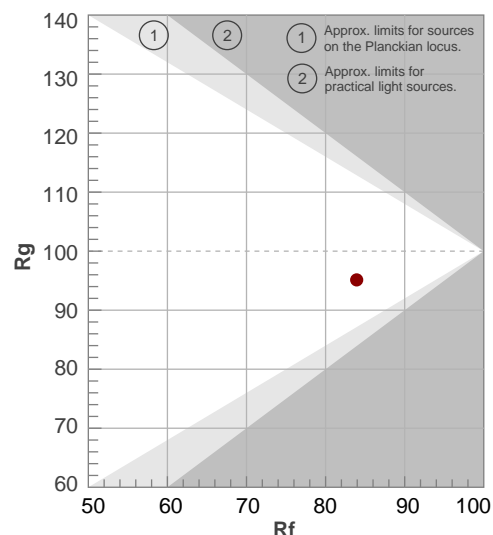
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6891 K	83,7	4,6	83,9	95,1	81,5	70	0,307	0,325	0,0009

TM30 DETAILS

Rf 83,9
Fidelity index Rf

Rg 95,1
Gammut index

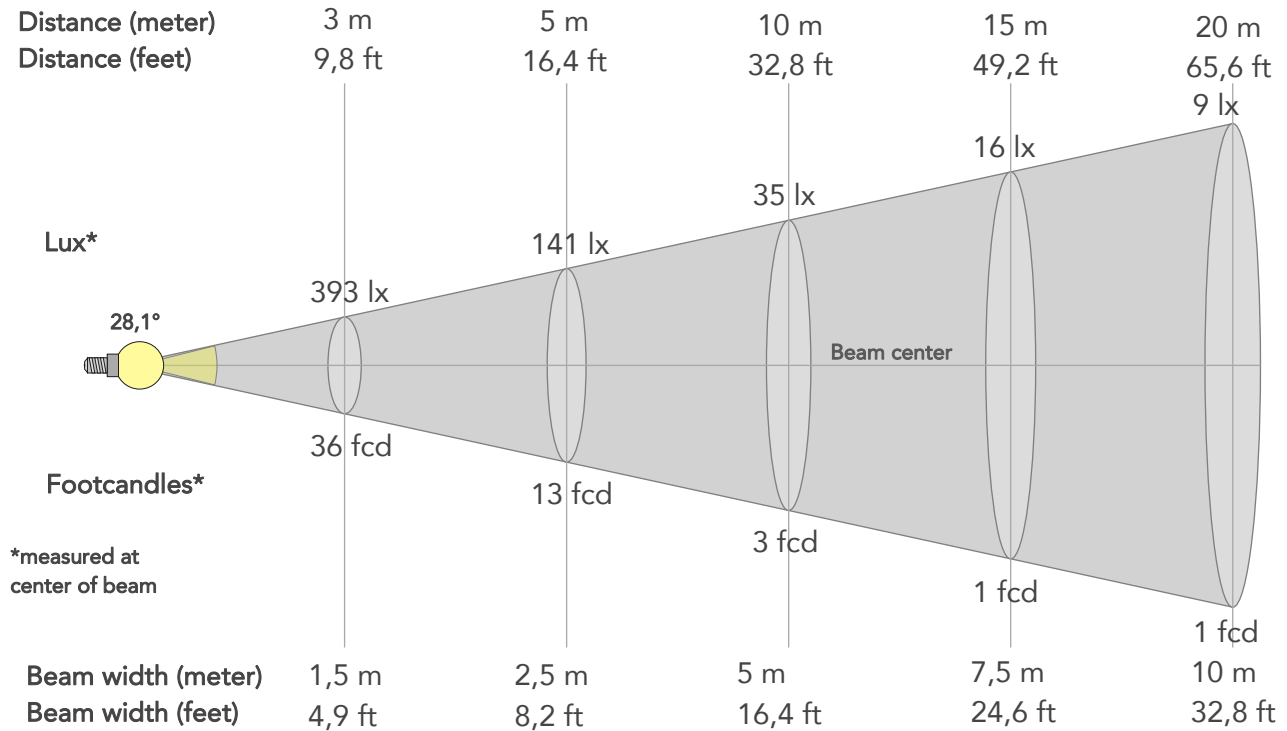
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	76	-13%	-1%
2	82	-8%	6%
3	82	-5%	10%
4	87	0%	7%
5	89	0%	3%
6	94	0%	-2%
7	95	-3%	-1%
8	87	-8%	0%
9	84	-10%	9%
10	76	-4%	15%
11	74	2%	14%
12	90	5%	4%
13	87	8%	-5%
14	78	12%	-13%
15	73	0%	-22%
16	85	-6%	-6%



BEAM DETAILS



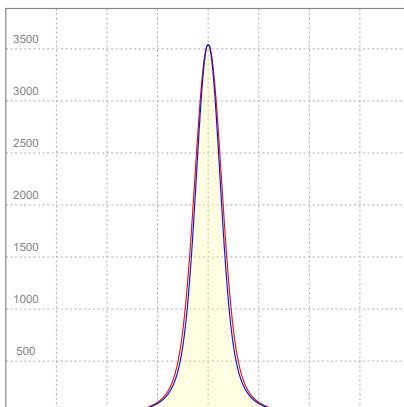
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
28,1°	58,4°	93,1°	98,5%	92,3%



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	3534lx	883lx	393lx	221lx	141lx	63lx	35lx	16lx	9lx	6lx	4lx	2lx	1lx
Footcand.	328fcd	82fcd	36fcd	21fcd	13fcd	6fcd	3fcd	1fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,5m	2m	2,5m	3,8m	5m	7,5m	10m	12,5m	15m	20m	25m
Beam wid.	1,7ft	3,3ft	4,9ft	6,6ft	8,2ft	12,3ft	16,4ft	24,6ft	32,8ft	41ft	49,2ft	65,6ft	82ft

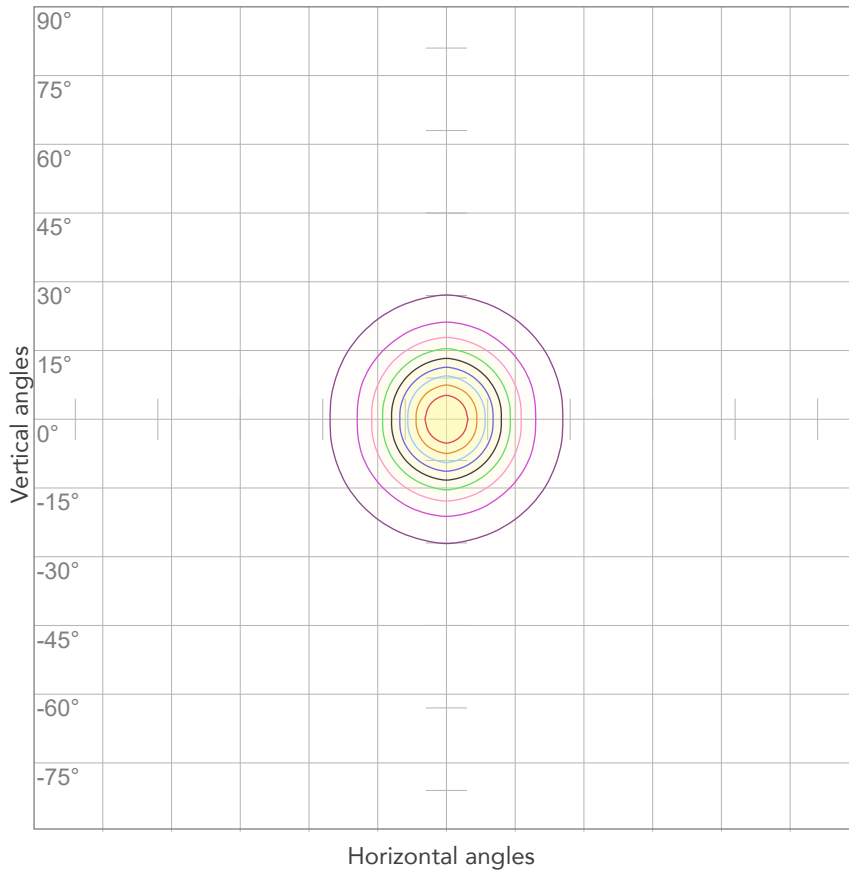
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,120A	22,6W	56lm/W

ISO CANDELA DIAGRAM



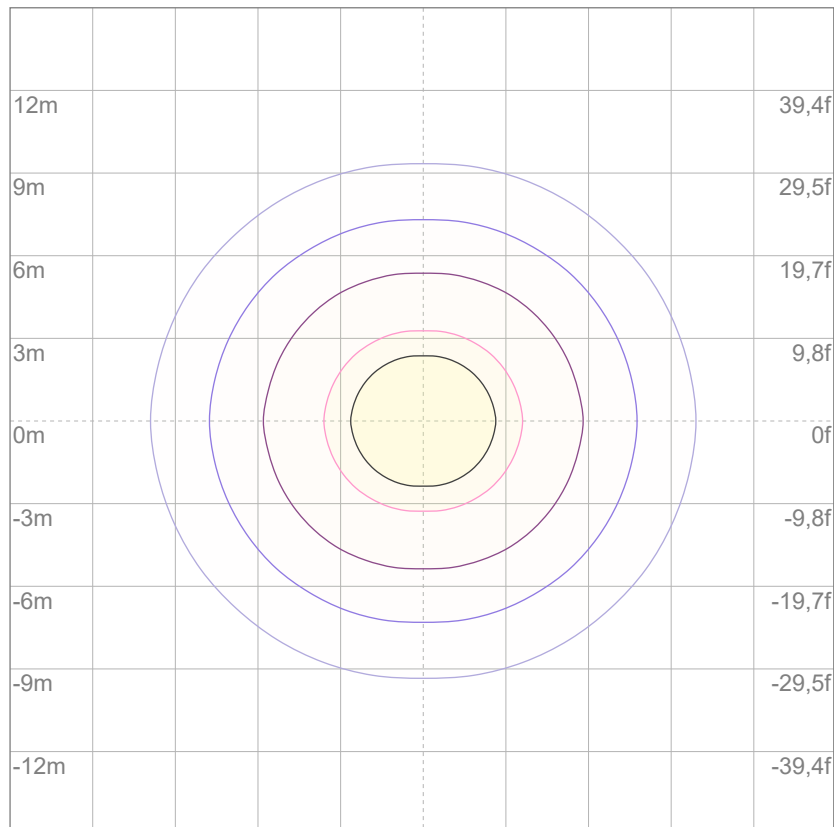
10%	353 cd
20%	707 cd
30%	1060 cd
40%	1414 cd
50%	1767 cd
60%	2120 cd
70%	2474 cd
80%	2827 cd

Conditions:

Number of c-planes: 4

Candela at center: 3534 cd

ISO LUX DIAGRAM



3%	1,06 lx
5%	1,77 lx
10%	3,53 lx
30%	10,6 lx
50%	17,7 lx

Conditions:

Number of c-planes: 4

Lux at center: 35,3 lx

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

Total lumen output:

1264 lm

Peak candela output:

1393 cd

Light quality:

CRI: 83,8

Color temperature:

6894 K



PRODUCT NAME:

ARCSHINEM9VW

MEASURAMENT CONDITIONS:

Beam angle:

8° + Filter 40°

Target:

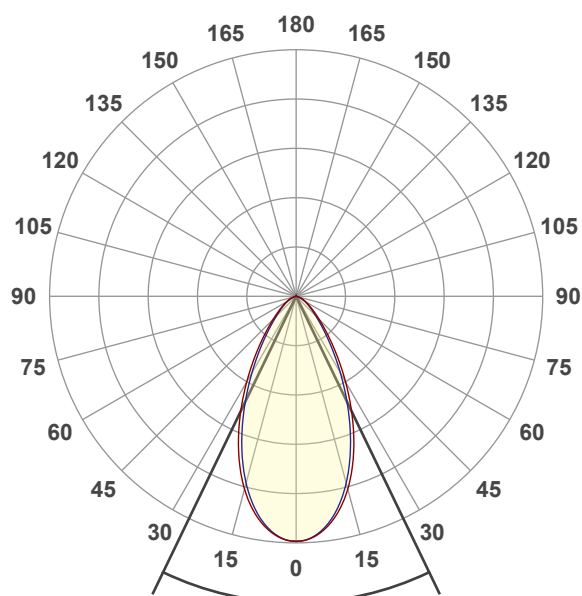
Cold White

Operator:

Paolo Carvone

Date and time:

08/09/2022 18:37:45

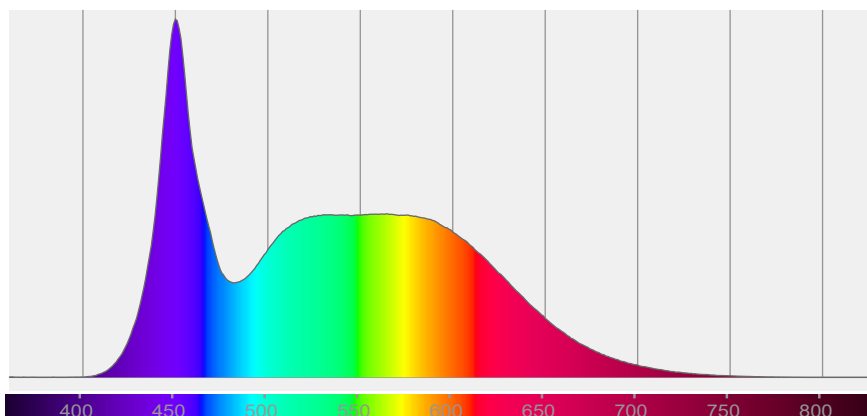


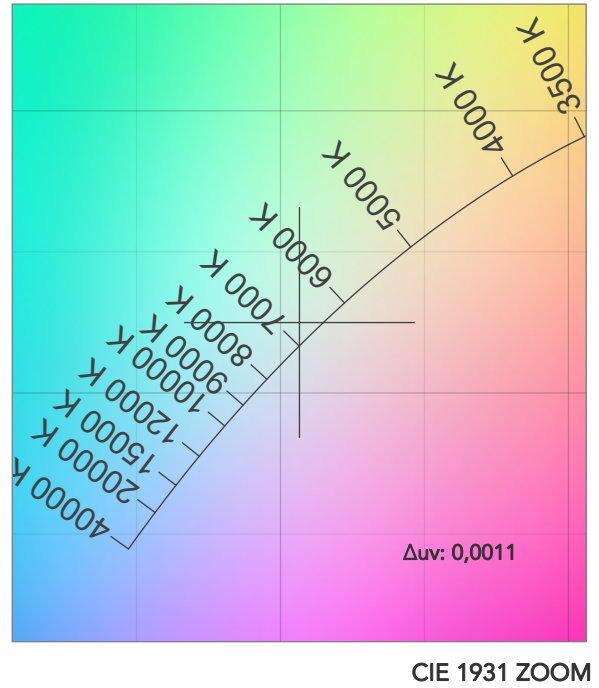
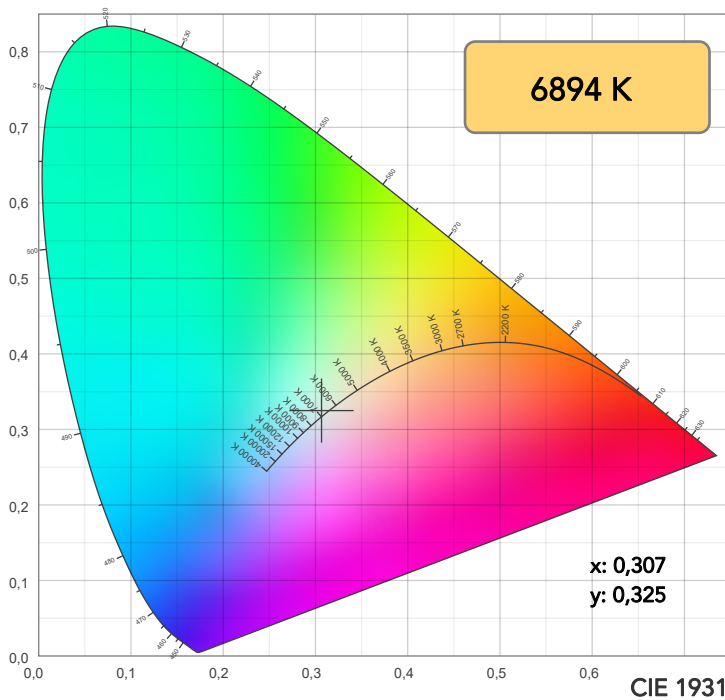
Beam angle 50%: 51,5°

Field angle 10%: 95,6°

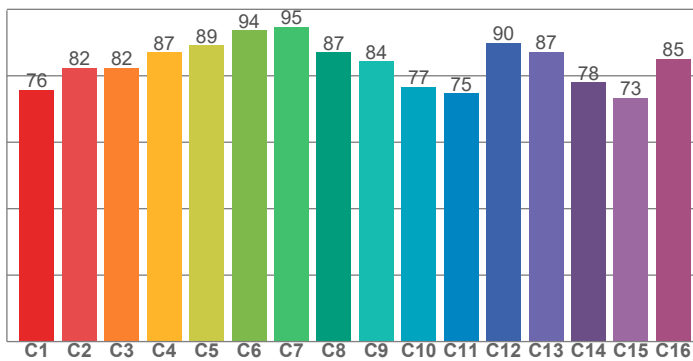
Cut off angle 2.5%: 132,9°

Spectra

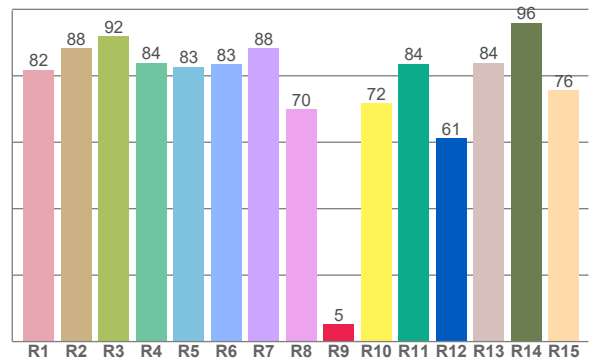




TM30: 84,1



CRI: 83,8 (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
81,8	88,2	92,0	83,9	82,7	83,4	88,3	70,0	5,2	71,7	83,7	61,2	83,9	96,0	75,7

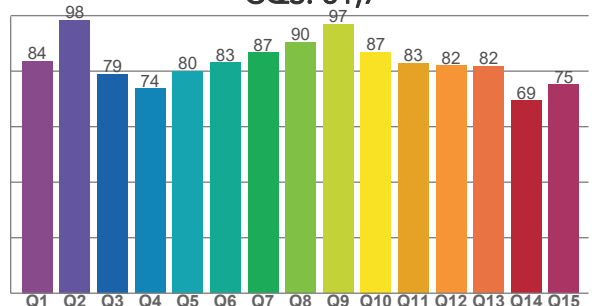
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
75,8	82,4	82,3	87,0	89,2	93,7	94,7	87,0	84,4	76,6	74,7	89,9	87,1	78,1	73,4	85,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
83,6	98,4	79,0	73,8	80,1	83,1	86,7	90,4	96,9	86,9	83,0	82,0	81,8	69,4	75,1

CQS: 81,7



COLOR PARAMETERS

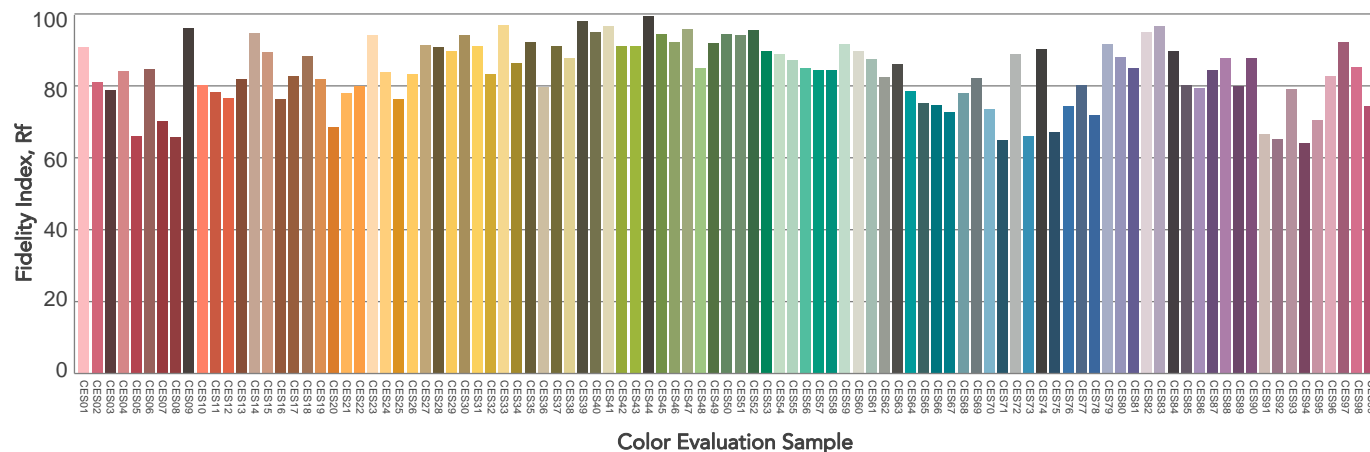
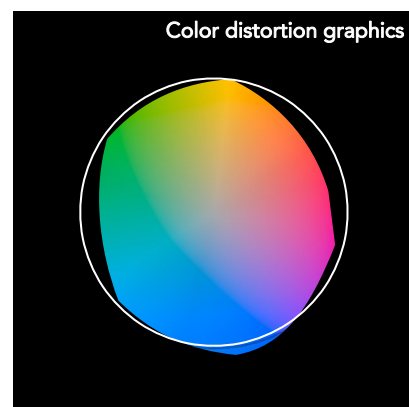
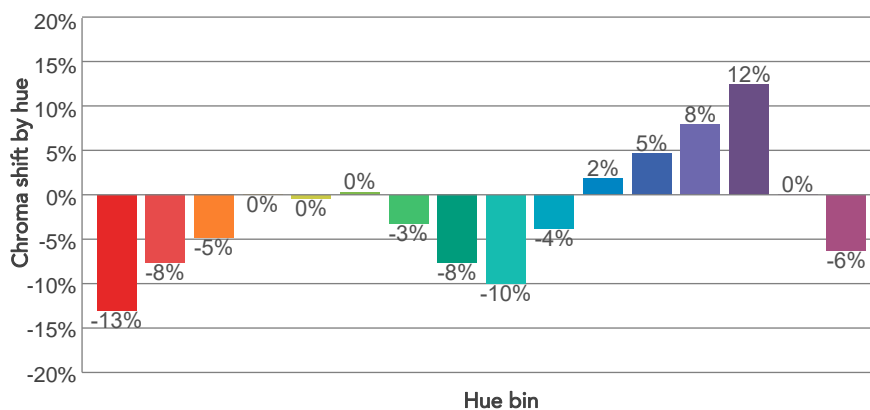
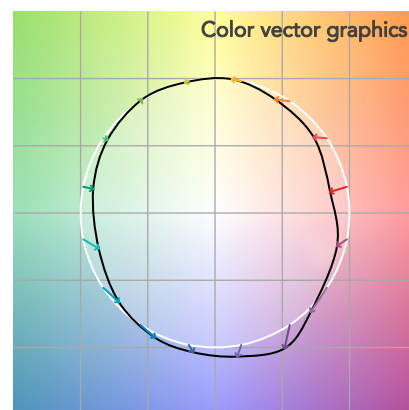
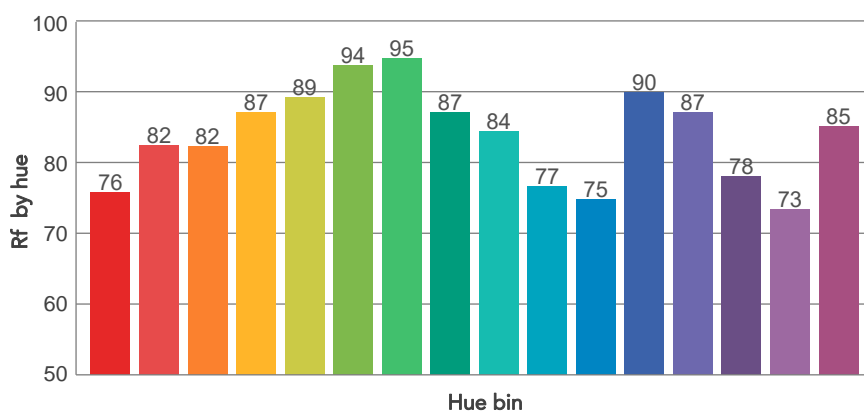
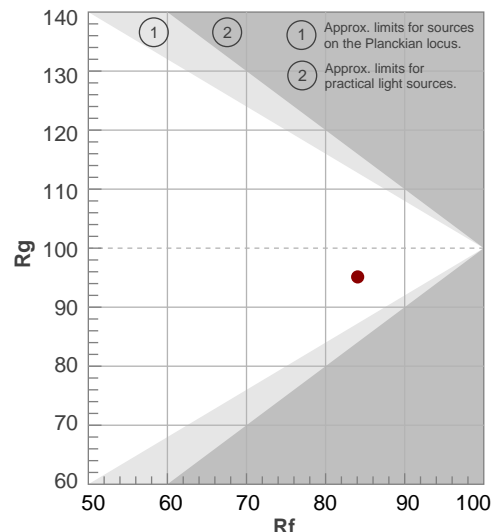
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6894 K	83,8	5,2	84,1	95,1	81,7	71	0,307	0,325	0,0011

TM30 DETAILS

Rf 84,1
Fidelity index Rf

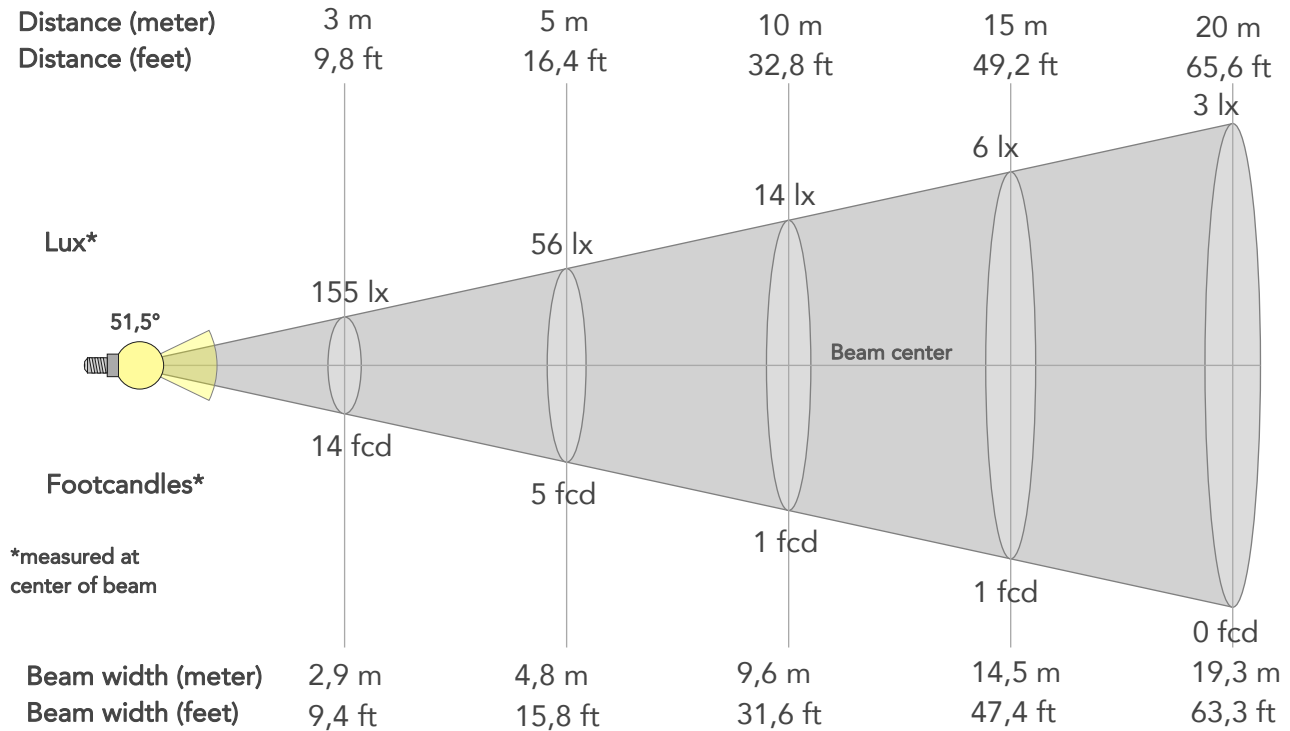
Rg 95,1
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	76	-13%	-1%
2	82	-8%	6%
3	82	-5%	10%
4	87	0%	7%
5	89	0%	3%
6	94	0%	-2%
7	95	-3%	-1%
8	87	-8%	0%
9	84	-10%	9%
10	77	-4%	15%
11	75	2%	14%
12	90	5%	4%
13	87	8%	-5%
14	78	12%	-13%
15	73	0%	-22%
16	85	-6%	-6%



BEAM DETAILS

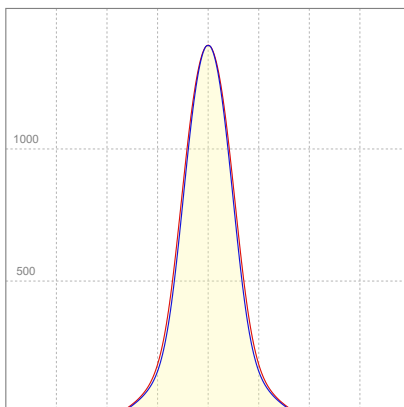
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
51,5°	95,6°	132,9°	95,9%	85,3%



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	1391lx	348lx	155lx	87lx	56lx	25lx	14lx	6lx	3lx	2lx	2lx	1lx	1lx
Footcand.	129fcd	32fcd	14fcd	8fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	1,9m	2,9m	3,9m	4,8m	7,2m	9,6m	14,5m	19,3m	24,1m	28,9m	38,6m	48,2m
Beam wid.	3,2ft	6,4ft	9,4ft	12,6ft	15,8ft	23,7ft	31,6ft	47,4ft	63,3ft	79,1ft	94,9ft	126,5ft	158,1ft

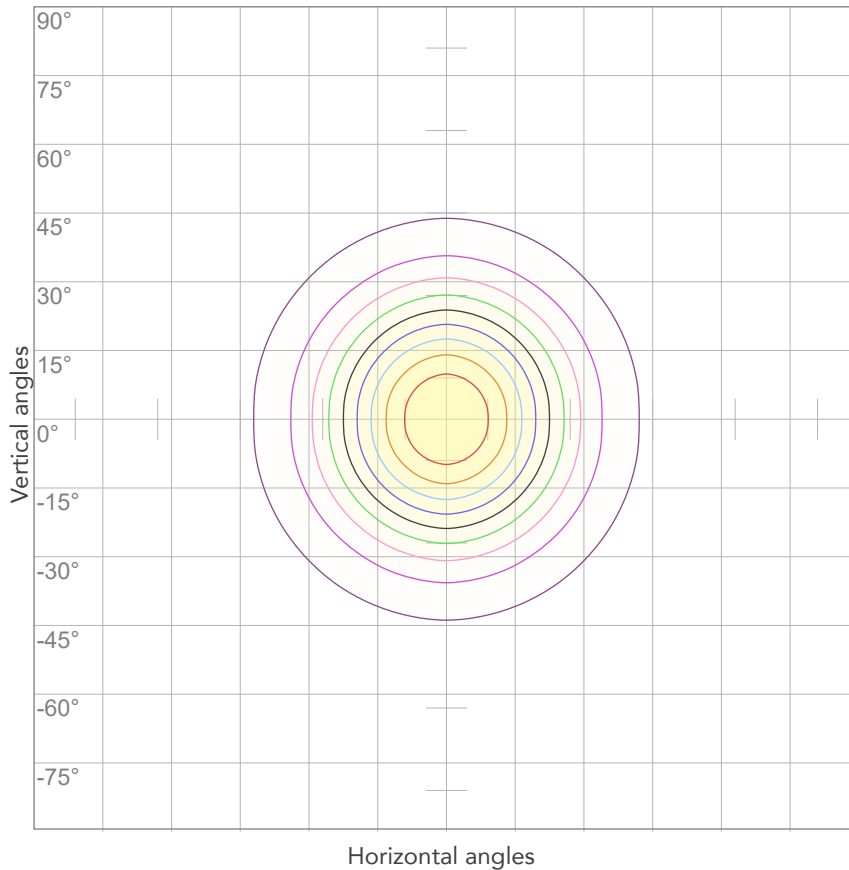
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,120A	22,6W	56lm/W

ISO CANDELA DIAGRAM



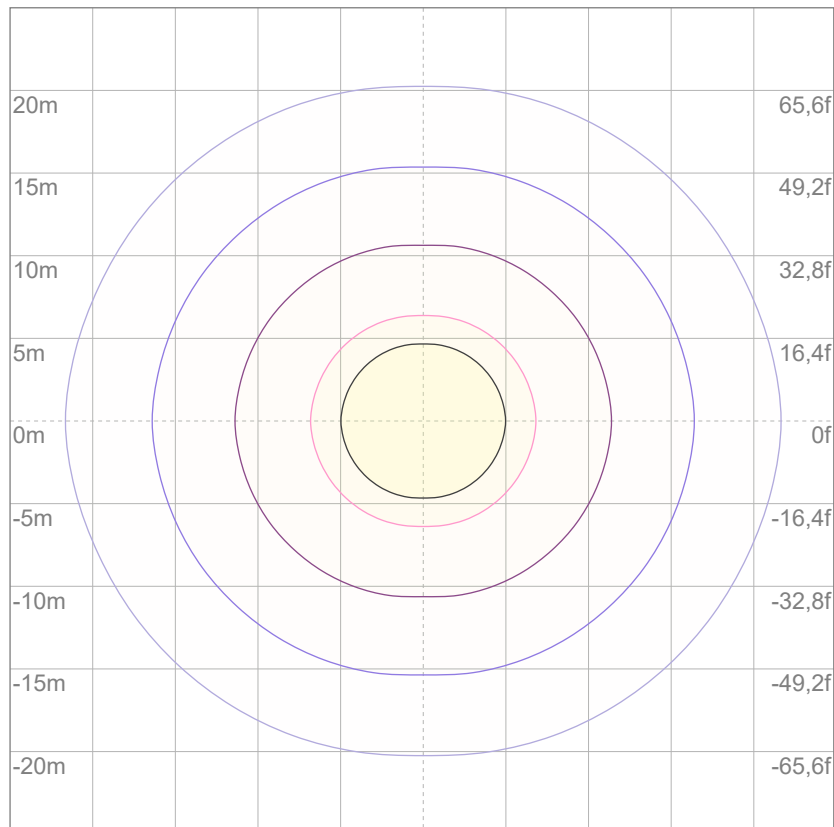
10%	139 cd
20%	278 cd
30%	417 cd
40%	556 cd
50%	696 cd
60%	835 cd
70%	974 cd
80%	1113 cd

Conditions:

Number of c-planes: 4

Candela at center: 1391 cd

ISO LUX DIAGRAM



3%	0,417 lx
5%	0,696 lx
10%	1,39 lx
30%	4,17 lx
50%	6,96 lx

Conditions:

Number of c-planes: 4

Lux at center: 13,9 lx

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

Total lumen output:

1261 lm

Peak candela output:

1105 cd

Light quality:

CRI: 83,8

Color temperature:

6896 K



PRODUCT NAME:

ARCSHINEM9VW

MEASURAMENT CONDITIONS:

Beam angle:

8° + Filter 60°

Target:

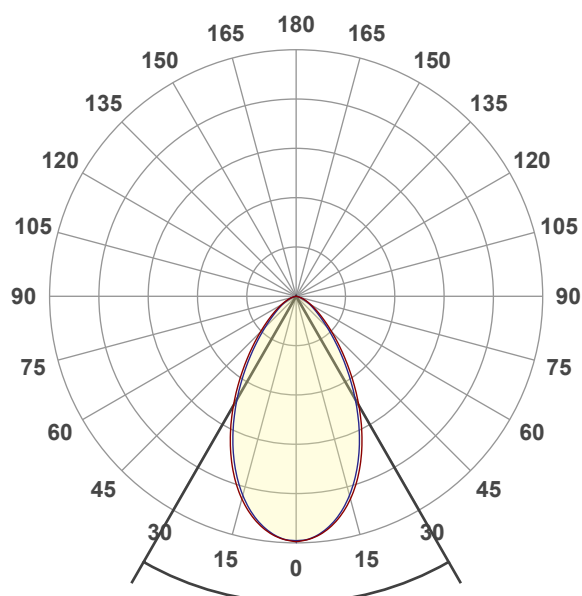
Cold White

Operator:

Paolo Carvone

Date and time:

08/09/2022 18:40:08

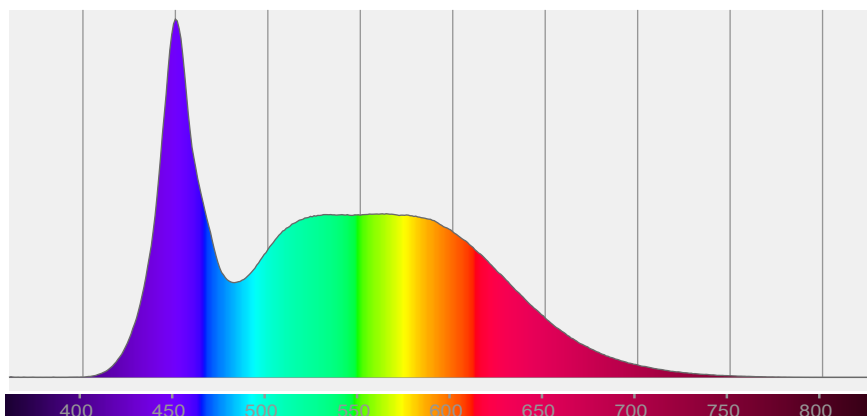


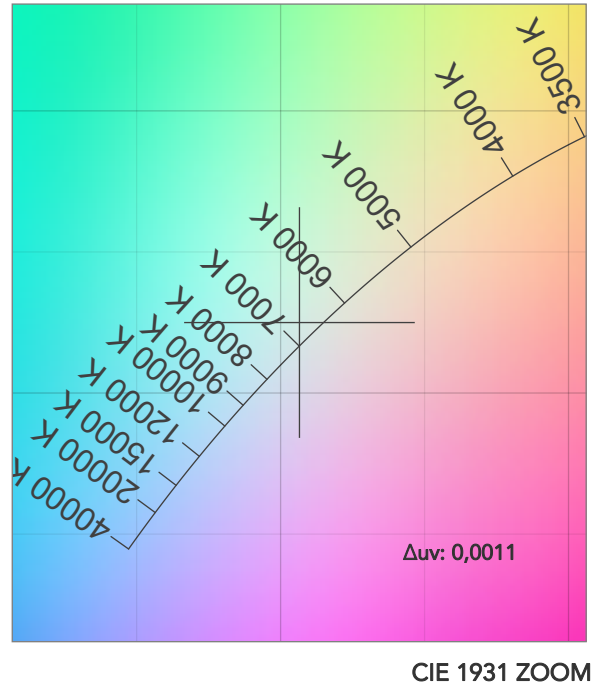
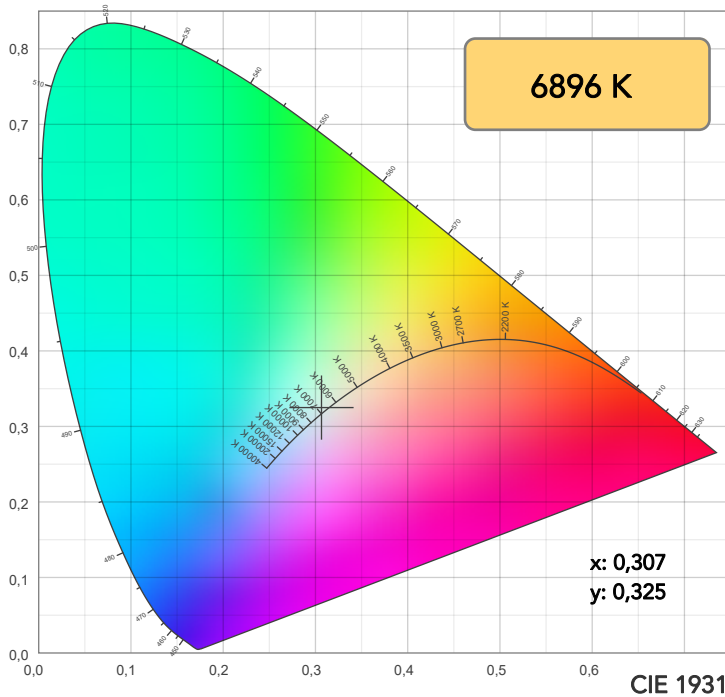
Beam angle 50%: 59,7°

Field angle 10%: 108,4°

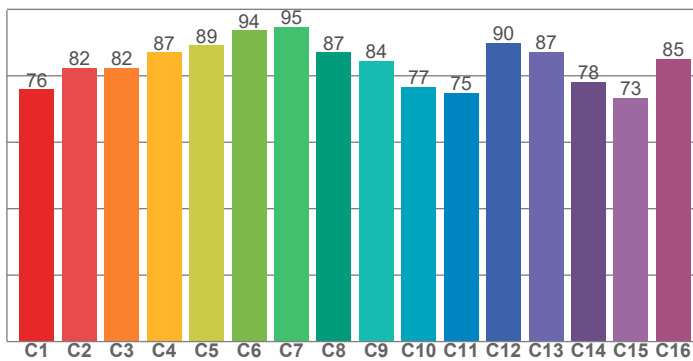
Cut off angle 2.5%: 141°

Spectra

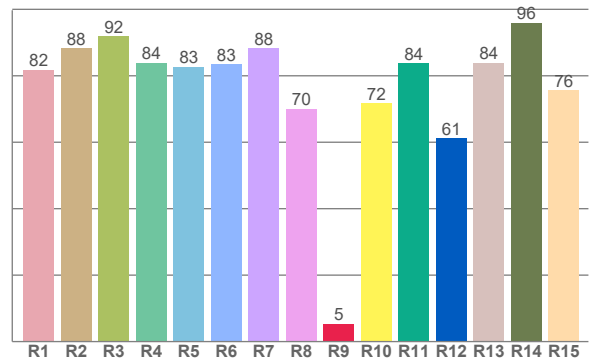




TM30: 84,1



CRI: 83,8 (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
81,8	88,3	92,0	83,9	82,8	83,4	88,4	70,1	5,4	71,7	83,7	61,2	83,9	96,0	75,7

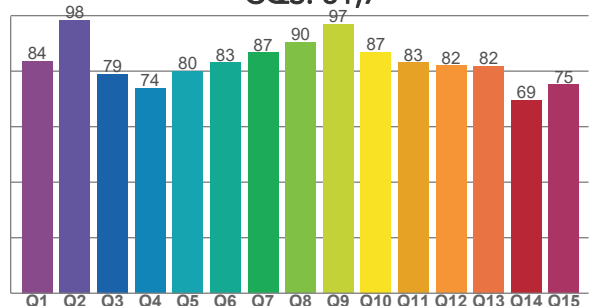
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
75,9	82,4	82,4	87,1	89,2	93,7	94,7	87,0	84,4	76,6	74,8	89,9	87,2	78,1	73,4	85,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
83,7	98,4	79,0	73,8	80,1	83,1	86,7	90,4	96,9	87,0	83,0	82,0	81,8	69,5	75,2

CQS: 81,7



COLOR PARAMETERS

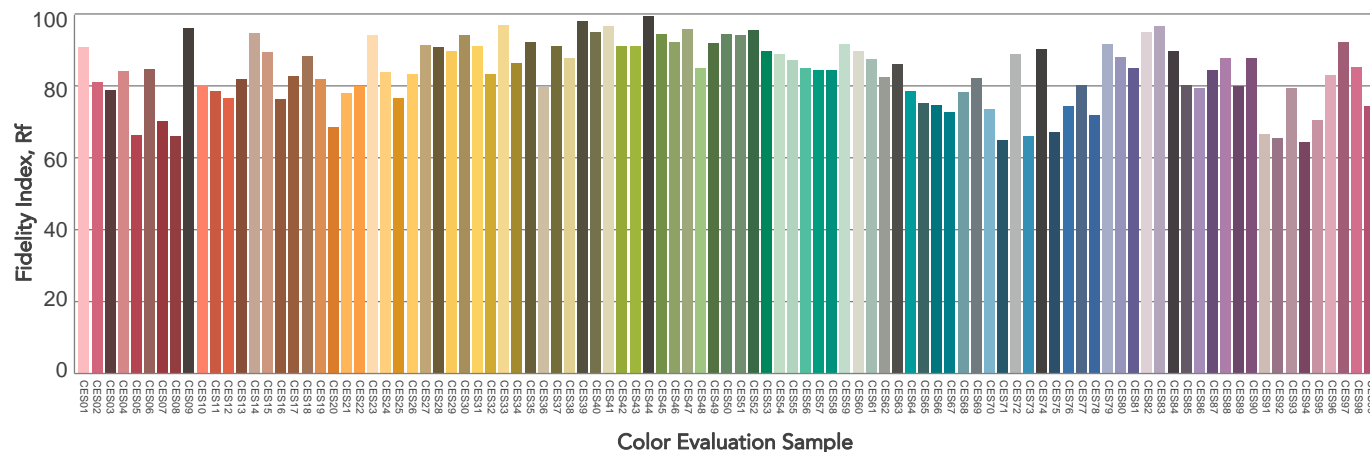
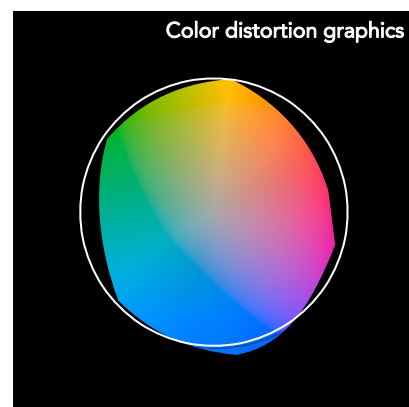
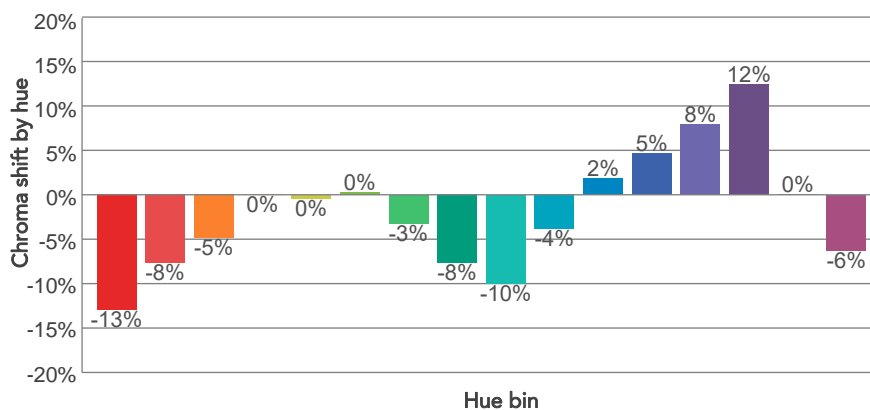
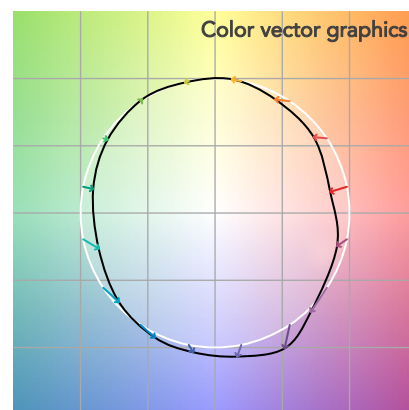
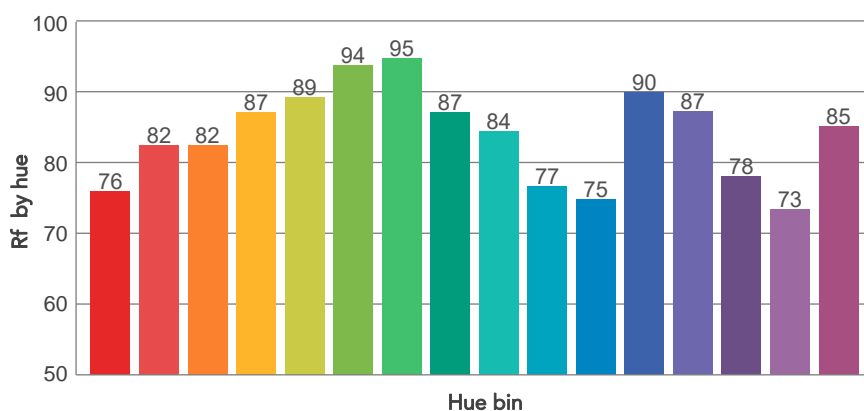
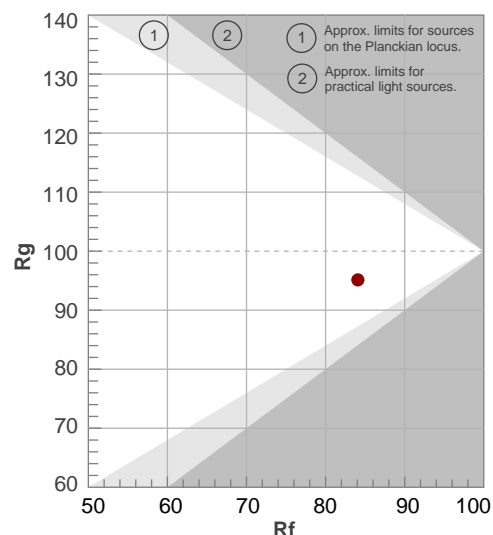
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6896 K	83,8	5,4	84,1	95,1	81,7	71	0,307	0,325	0,0011

TM30 DETAILS

Rf 84,1
Fidelity index Rf

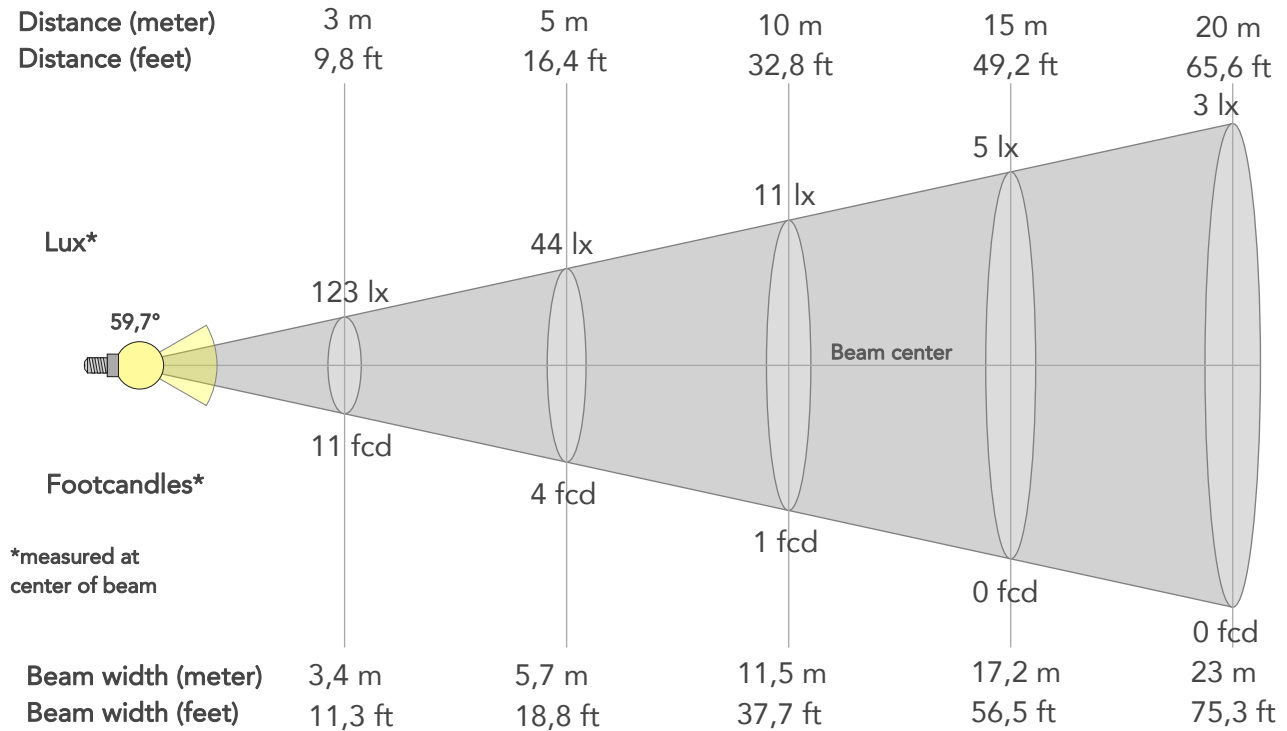
Rg 95,1
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	76	-13%	-1%
2	82	-8%	6%
3	82	-5%	10%
4	87	0%	7%
5	89	0%	3%
6	94	0%	-2%
7	95	-3%	-1%
8	87	-8%	0%
9	84	-10%	9%
10	77	-4%	15%
11	75	2%	14%
12	90	5%	4%
13	87	8%	-5%
14	78	12%	-13%
15	73	0%	-21%
16	85	-6%	-6%



BEAM DETAILS

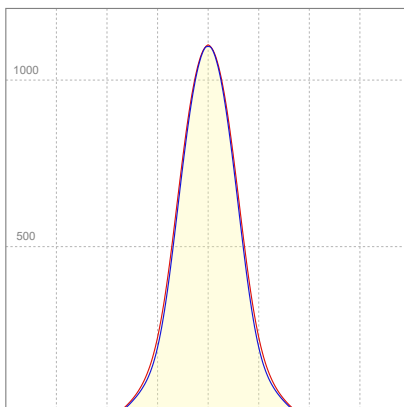
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
59,7°	108,4°	141°	94,9%	81,6%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	1103lx	276lx	123lx	69lx	44lx	20lx	11lx	5lx	3lx	2lx	1lx	1lx	0lx
Footcand.	102fcd	26fcd	11fcd	6fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,3m	3,4m	4,6m	5,7m	8,6m	11,5m	17,2m	23m	28,7m	34,4m	45,9m	57,4m
Beam wid.	3,8ft	7,6ft	11,3ft	15ft	18,8ft	28,2ft	37,7ft	56,5ft	75,3ft	94,2ft	113ft	150,6ft	188,3ft

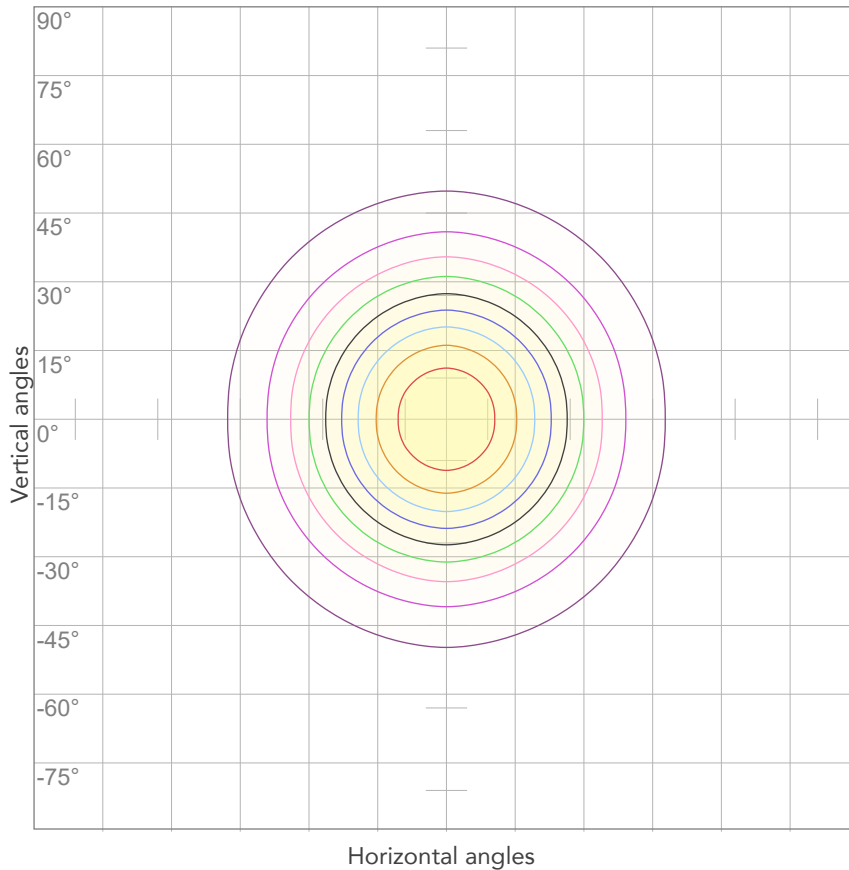
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,120A	22,6W	56lm/W

ISO CANDELA DIAGRAM



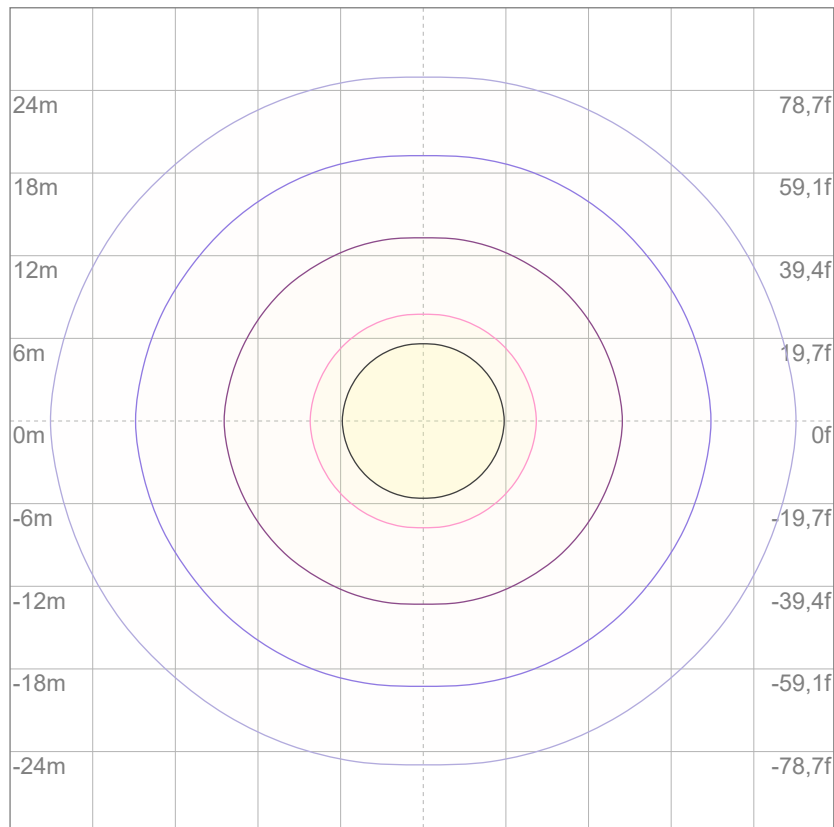
10%	110 cd
20%	221 cd
30%	331 cd
40%	441 cd
50%	552 cd
60%	662 cd
70%	772 cd
80%	882 cd

Conditions:

Number of c-planes: 4

Candela at center: 1103 cd

ISO LUX DIAGRAM



3%	0,331 lx
5%	0,552 lx
10%	1,10 lx
30%	3,31 lx
50%	5,52 lx

Conditions:

Number of c-planes: 4

Lux at center: 11,0 lx

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

Total lumen output:

1876 lm

Peak candela output:

2551 cd

Light quality:

CRI: 84,1

Color temperature:

6981 K



PRODUCT NAME:

ARCSHINEM9VW

MEASURAMENT CONDITIONS:

Beam angle:

8° + Filter 10°x60°

Target:

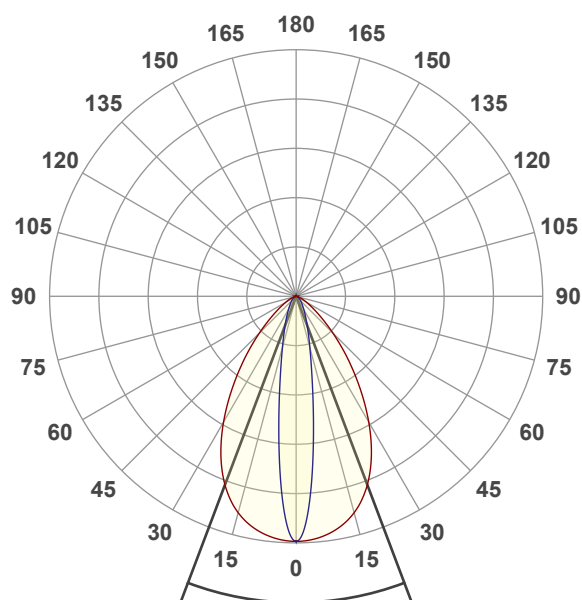
Cold White

Operator:

Paolo Carvone

Date and time:

08/09/2022 18:45:35

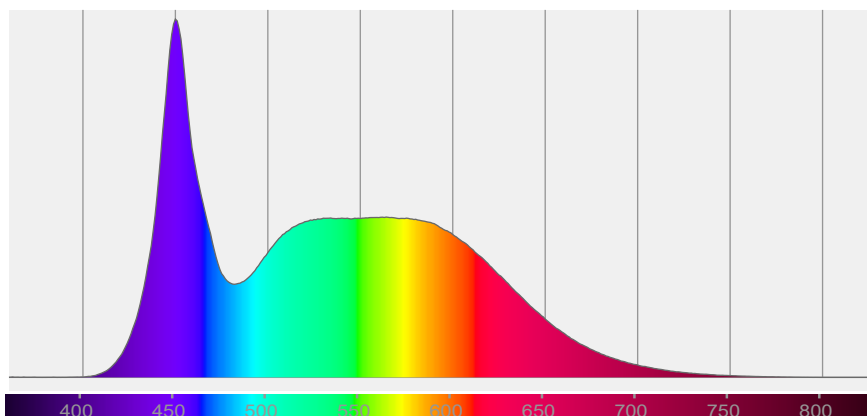


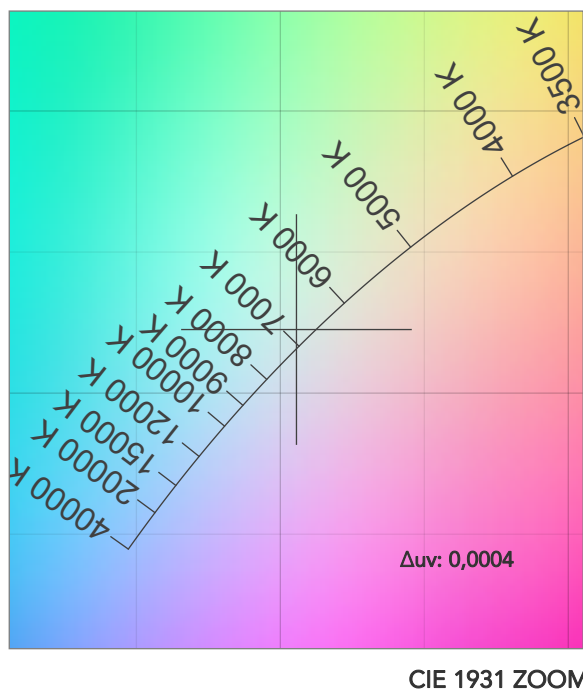
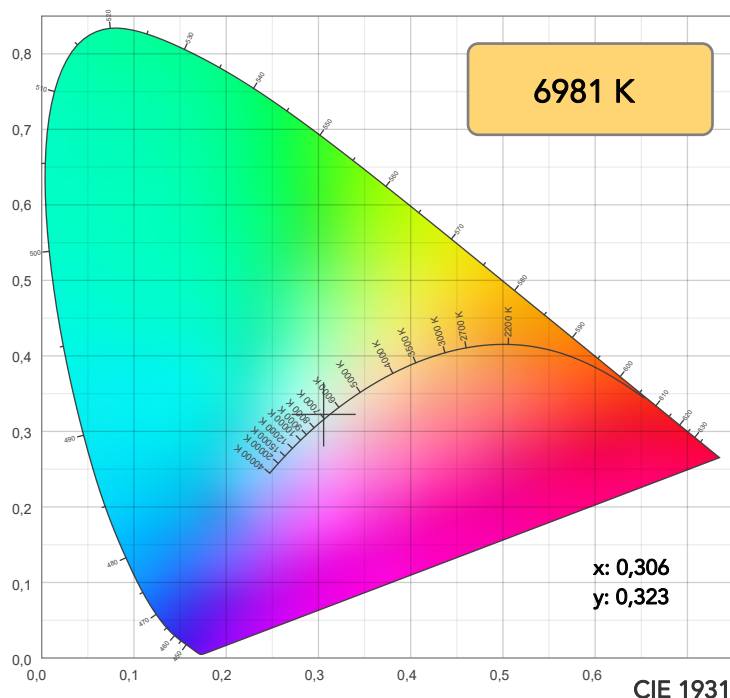
Beam angle 50%: 41,4°

Field angle 10%: 76,5°

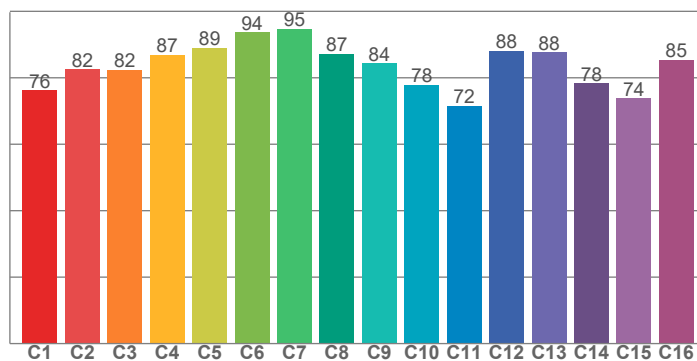
Cut off angle 2.5%: 112,1°

Spectra

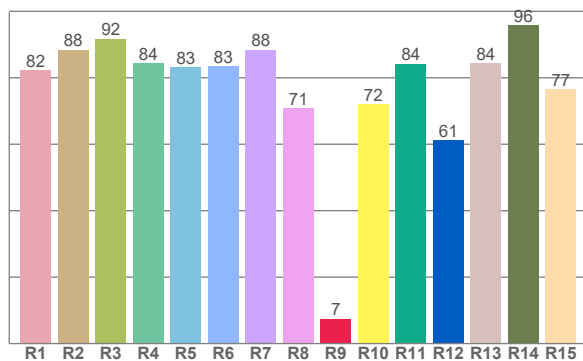




TM30: 84,1



CRI: 84,1 (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
82,4	88,5	91,7	84,3	83,2	83,4	88,5	70,8	7,5	72,0	84,2	61,3	84,4	95,8	76,6

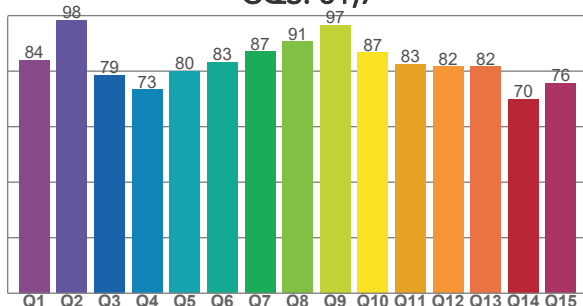
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
76,2	82,5	82,4	86,8	89,0	93,7	94,7	87,2	84,4	77,9	71,5	88,1	87,6	78,3	73,8	85,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
84,1	98,3	78,6	73,3	79,9	83,2	87,0	90,6	96,7	86,7	82,6	81,7	81,7	70,0	75,6

CQS: 81,7



COLOR PARAMETERS

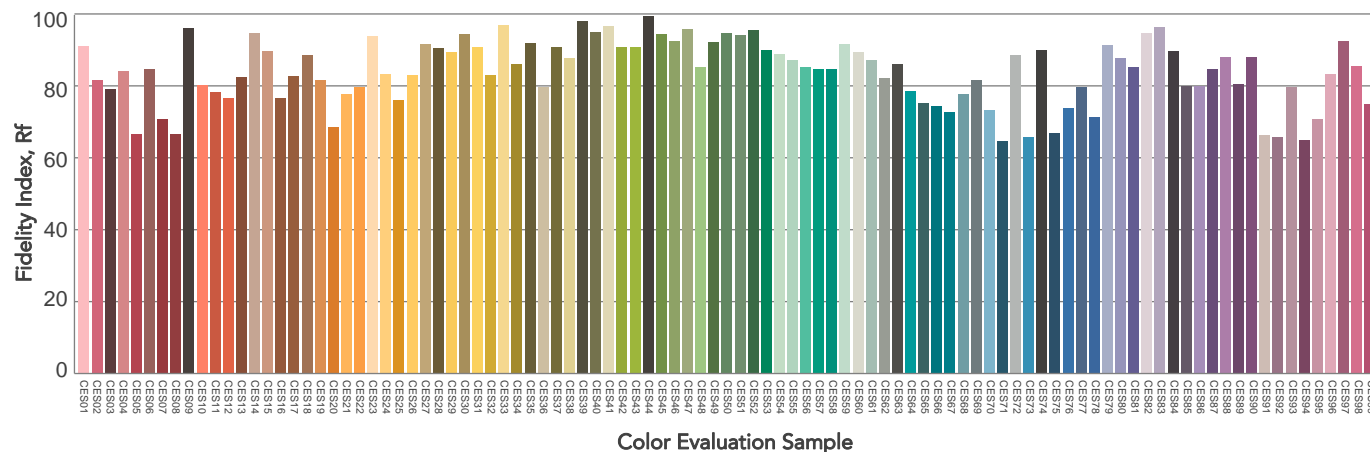
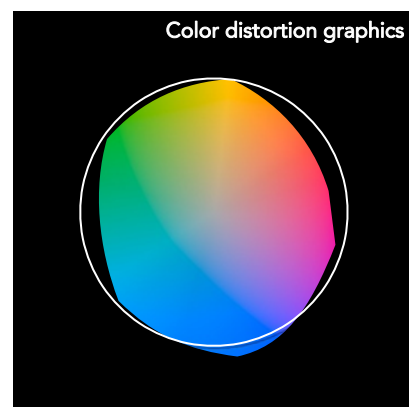
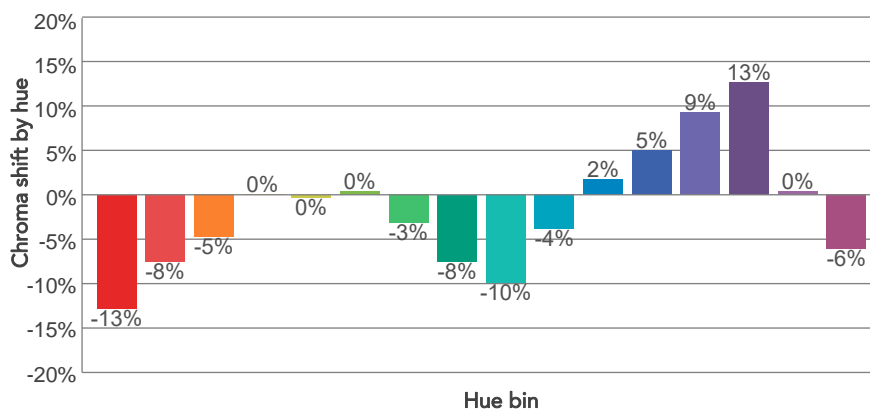
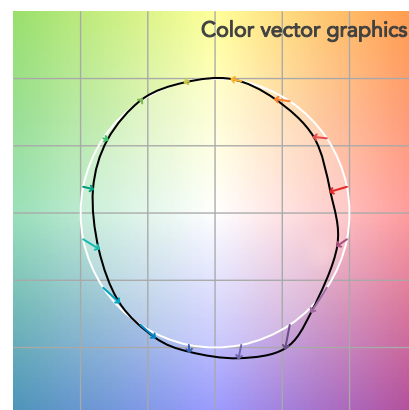
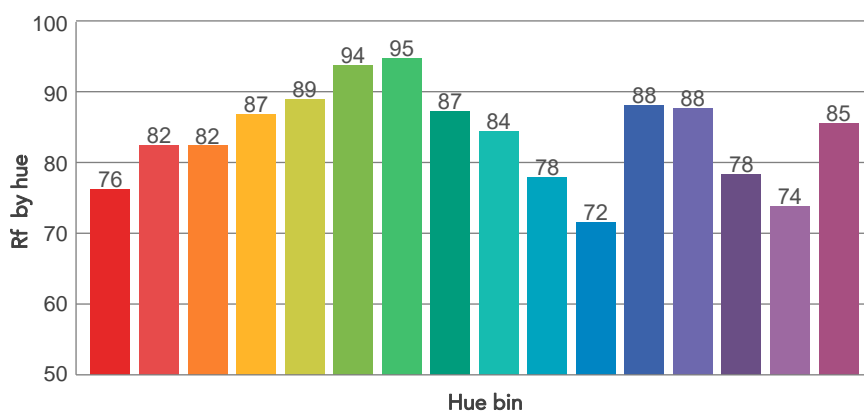
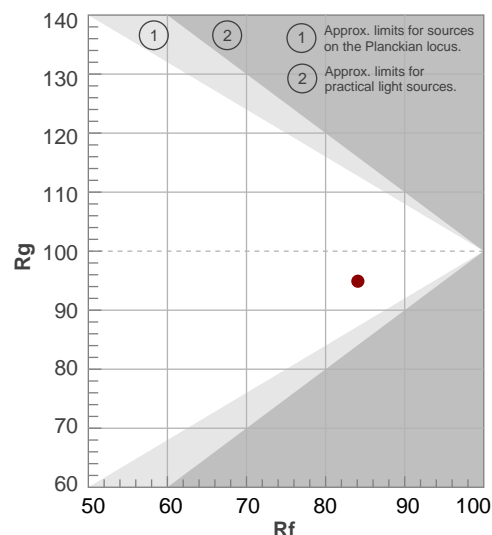
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6981 K	84,1	7,5	84,1	94,9	81,7	71	0,306	0,323	0,0004

TM30 DETAILS

Rf 84,1
Fidelity index Rf

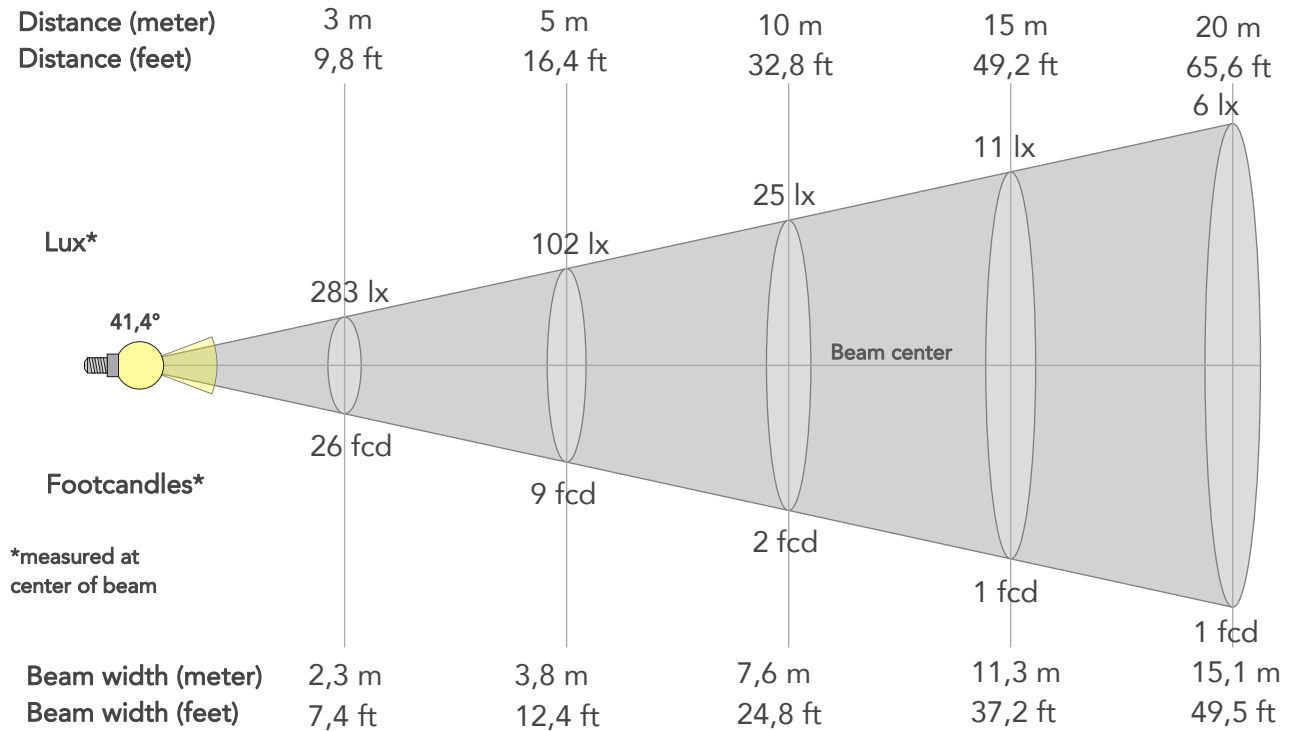
Rg 94,9
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	76	-13%	-1%
2	82	-8%	6%
3	82	-5%	10%
4	87	0%	7%
5	89	0%	3%
6	94	0%	-2%
7	95	-3%	-1%
8	87	-8%	0%
9	84	-10%	9%
10	78	-4%	16%
11	72	2%	14%
12	88	5%	1%
13	88	9%	-4%
14	78	13%	-13%
15	74	0%	-21%
16	85	-6%	-6%



BEAM DETAILS

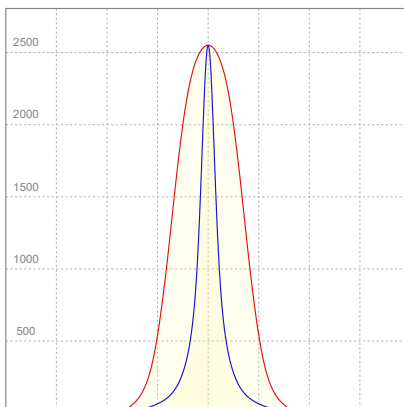
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
41,4°	76,5°	112,1°	96,9%	85,7%



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	2549lx	637lx	283lx	159lx	102lx	45lx	25lx	11lx	6lx	4lx	3lx	2lx	1lx
Footcand.	237fcd	59fcd	26fcd	15fcd	9fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,8m	1,5m	2,3m	3m	3,8m	5,7m	7,6m	11,3m	15,1m	18,9m	22,7m	30,2m	37,8m
Beam wid.	2,5ft	5ft	7,4ft	9,9ft	12,4ft	18,6ft	24,8ft	37,2ft	49,5ft	61,9ft	74,3ft	99,1ft	123,9ft

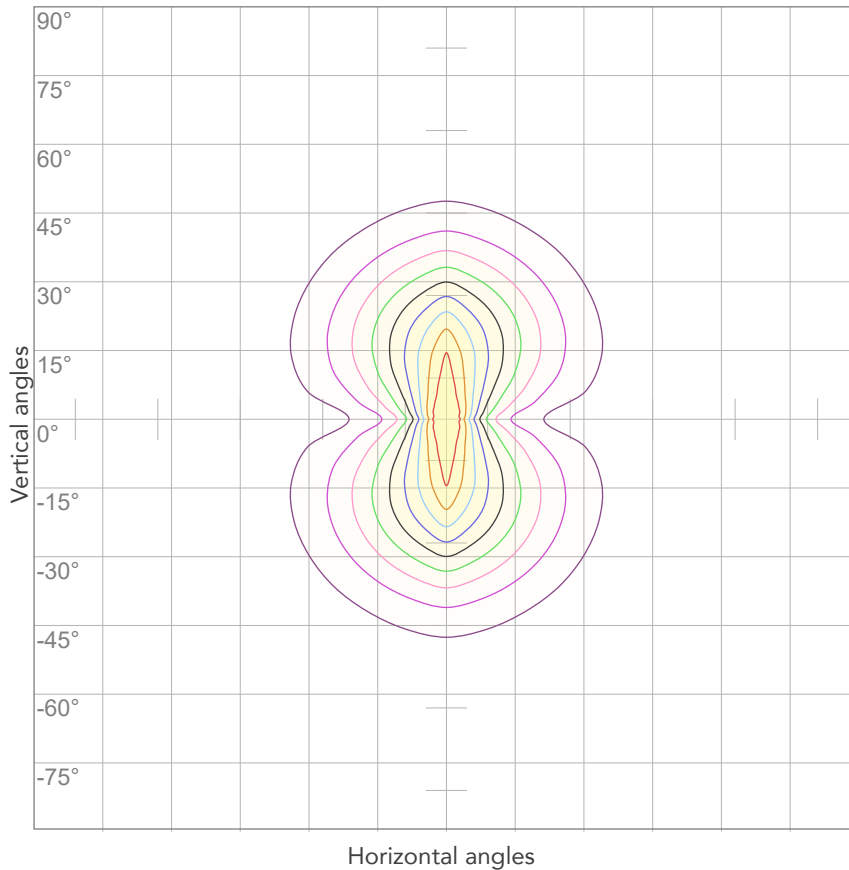
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,120A	22,6W	83lm/W

ISO CANDELA DIAGRAM



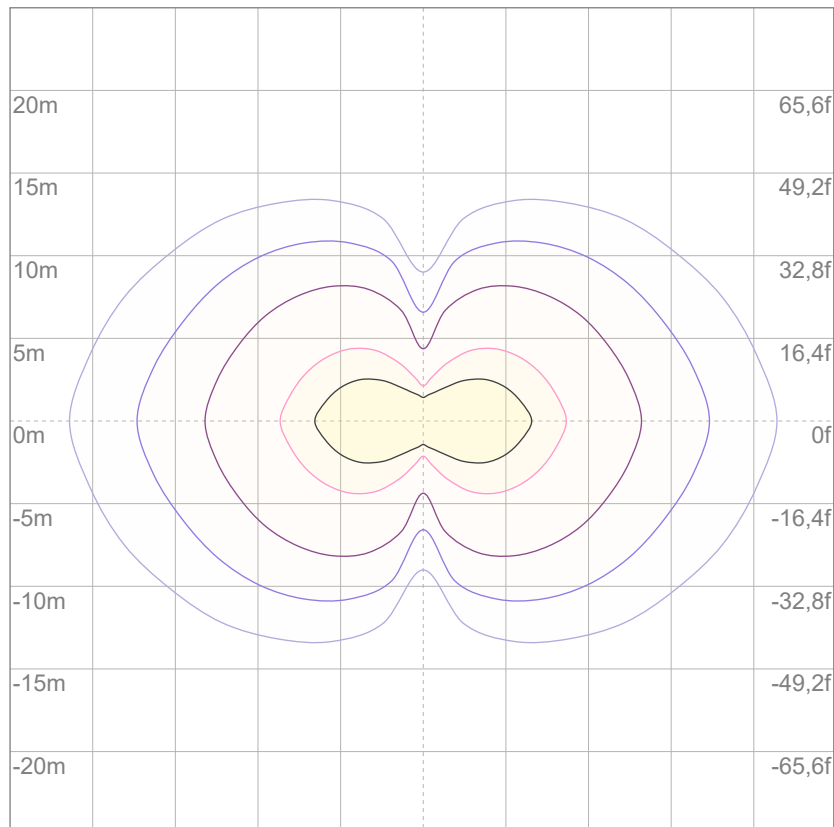
10%	255 cd
20%	510 cd
30%	765 cd
40%	1020 cd
50%	1274 cd
60%	1529 cd
70%	1784 cd
80%	2039 cd

Conditions:

Number of c-planes: 4

Candela at center: 2549 cd

ISO LUX DIAGRAM



3%	0,765 lx
5%	1,27 lx
10%	2,55 lx
30%	7,65 lx
50%	12,7 lx

Conditions:

Number of c-planes: 4

Lux at center: 25,5 lx

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

Total lumen output:

1364 lm

Peak candela output:

1403 cd

Light quality:

CRI: 83,8

Color temperature:

6871 K



PRODUCT NAME:

ARCSHINEM9VW

MEASURAMENT CONDITIONS:

Beam angle:

8° + Filter 30°x60°

Target:

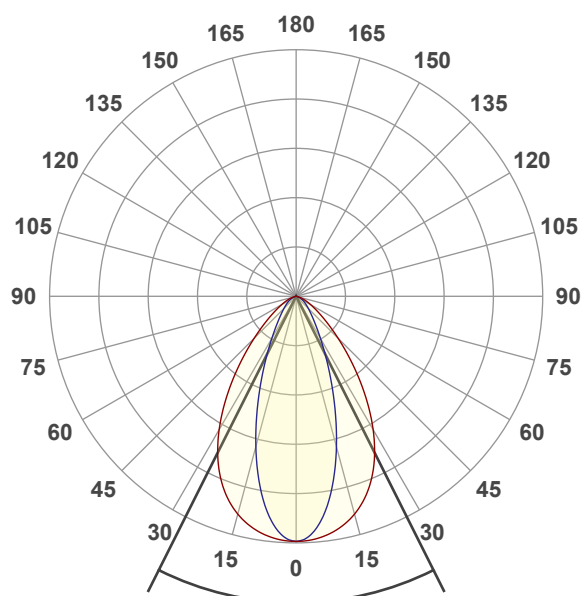
Cold White

Operator:

Paolo Carvone

Date and time:

08/09/2022 18:42:32

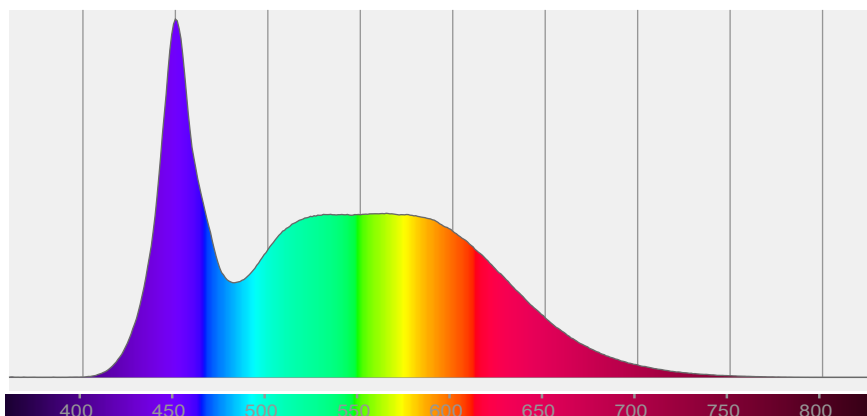


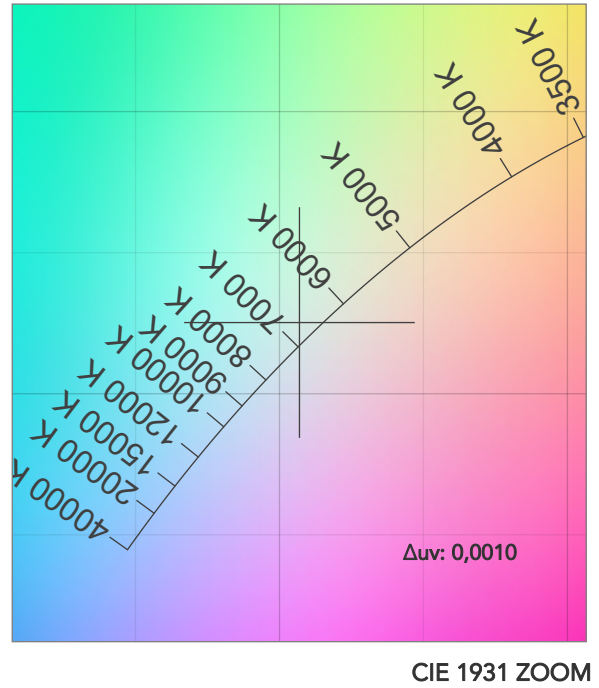
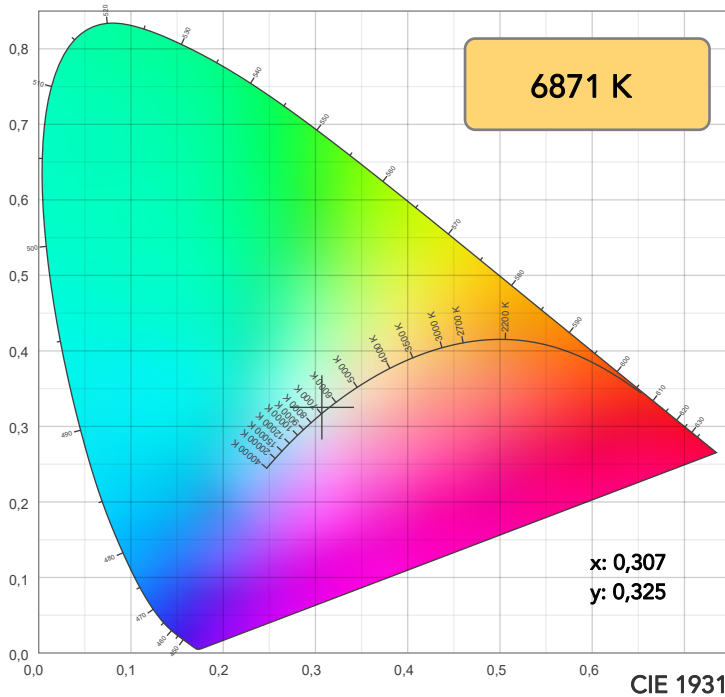
Beam angle 50%: 53,3°

Field angle 10%: 94,8°

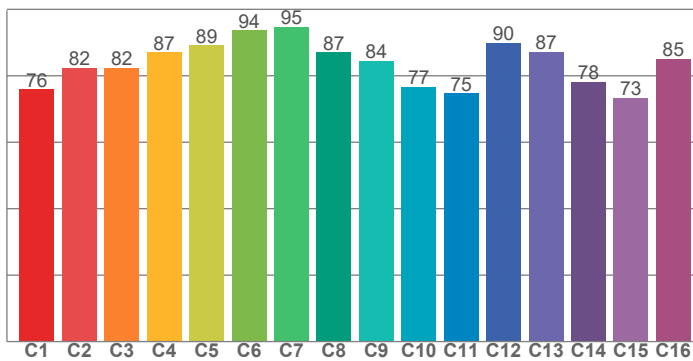
Cut off angle 2.5%: 132,5°

Spectra

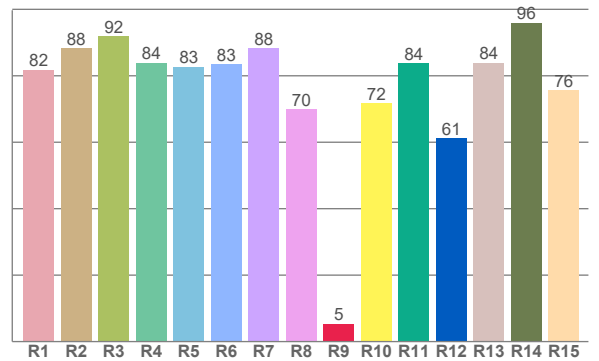




TM30: 84,1



CRI: 83,8 (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
81,8	88,3	92,0	83,9	82,8	83,4	88,3	70,0	5,4	71,7	83,7	61,2	83,9	96,0	75,7

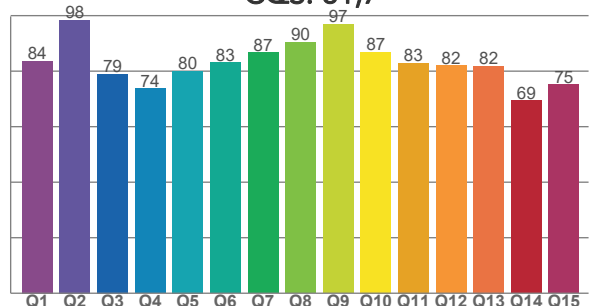
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
75,9	82,4	82,3	87,0	89,2	93,7	94,7	87,0	84,4	76,6	74,7	89,9	87,1	78,1	73,4	85,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
83,6	98,4	79,0	73,8	80,1	83,1	86,7	90,4	96,9	86,9	83,0	82,0	81,8	69,5	75,1

CQS: 81,7



COLOR PARAMETERS

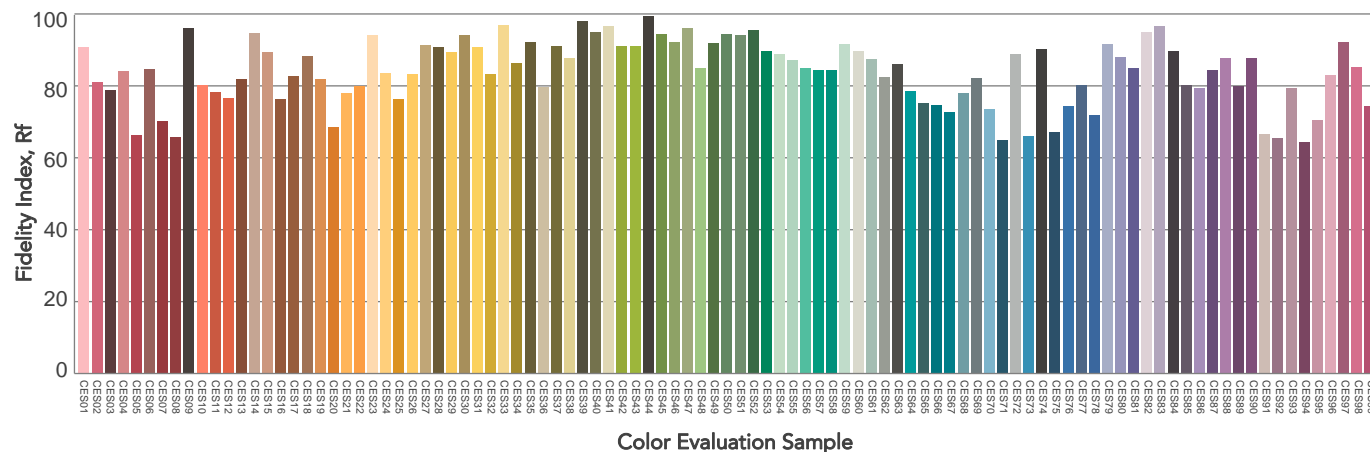
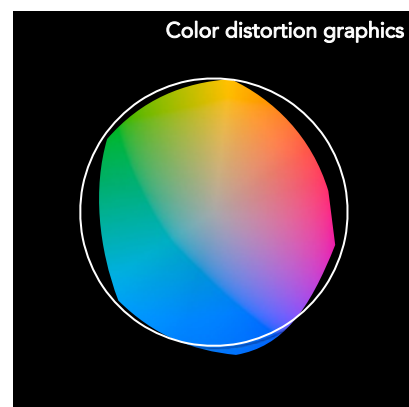
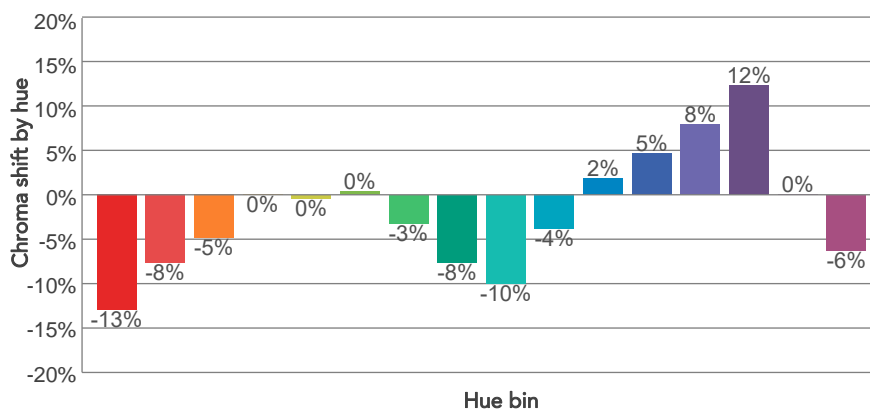
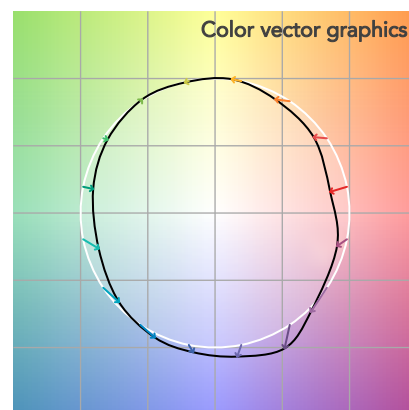
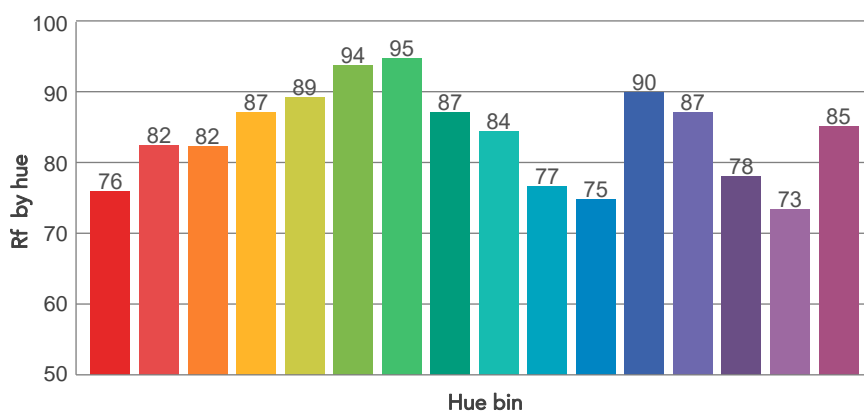
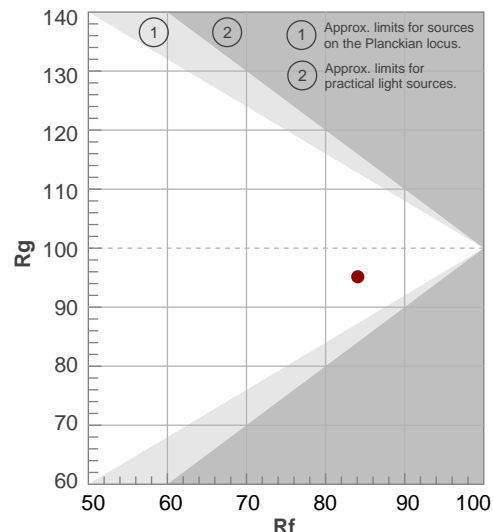
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6871 K	83,8	5,4	84,1	95,1	81,7	71	0,307	0,325	0,0010

TM30 DETAILS

Rf 84,1
Fidelity index Rf

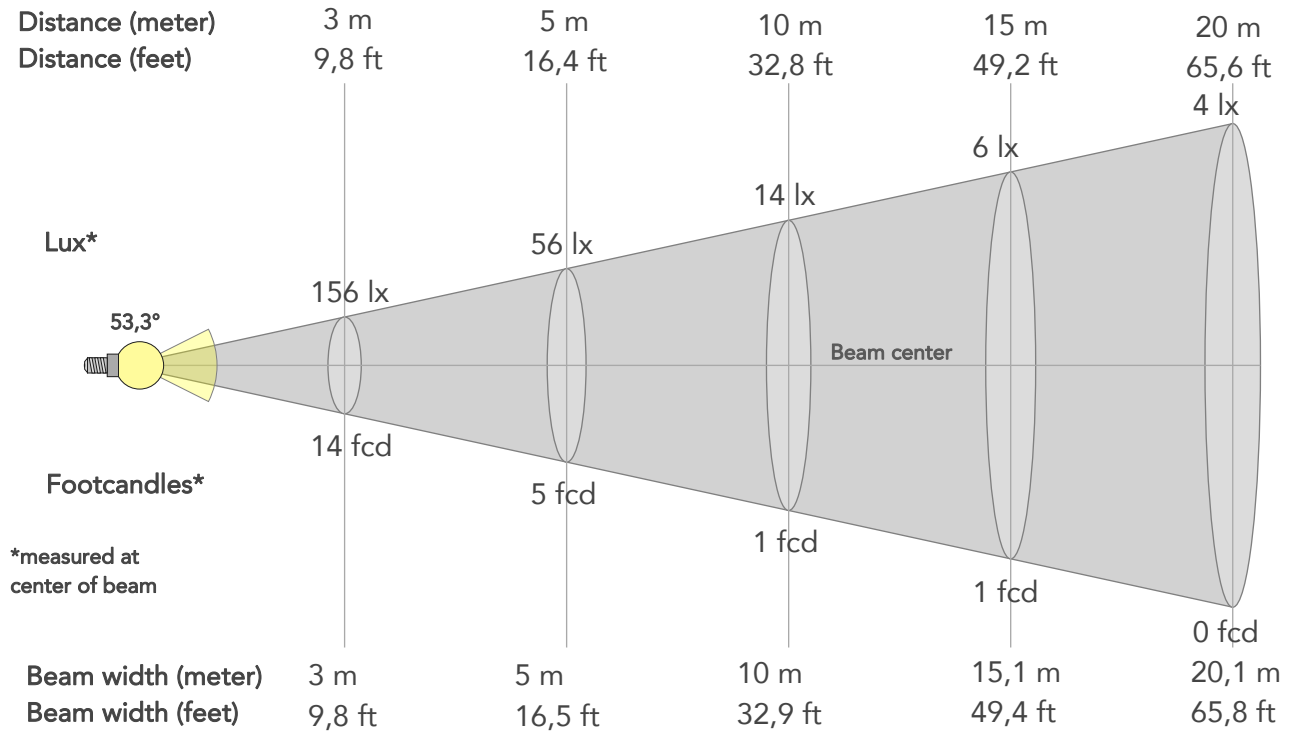
Rg 95,1
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	76	-13%	-1%
2	82	-8%	6%
3	82	-5%	10%
4	87	0%	7%
5	89	0%	3%
6	94	0%	-2%
7	95	-3%	-1%
8	87	-8%	0%
9	84	-10%	9%
10	77	-4%	15%
11	75	2%	14%
12	90	5%	4%
13	87	8%	-5%
14	78	12%	-13%
15	73	0%	-21%
16	85	-6%	-6%



BEAM DETAILS

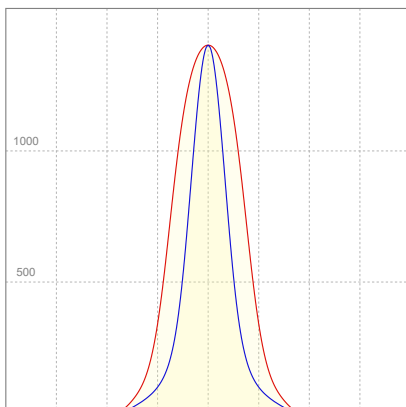
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
53,3°	94,8°	132,5°	95,7%	83,6%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	1403lx	351lx	156lx	88lx	56lx	25lx	14lx	6lx	4lx	2lx	2lx	1lx	1lx
Footcand.	130fcd	33fcd	14fcd	8fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2m	3m	4m	5m	7,5m	10m	15,1m	20,1m	25,1m	30,1m	40,1m	50,2m
Beam wid.	3,3ft	6,6ft	9,8ft	13,1ft	16,5ft	24,7ft	32,9ft	49,4ft	65,8ft	82,3ft	98,7ft	131,6ft	164,5ft

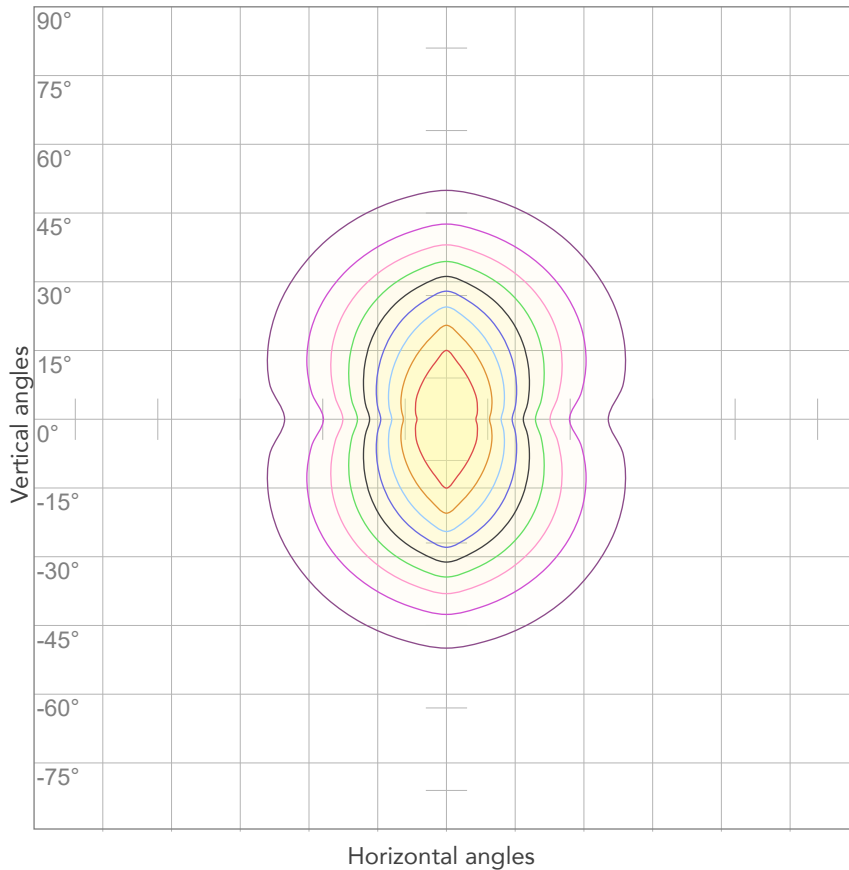
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,120A	22,6W	60lm/W

ISO CANDELA DIAGRAM



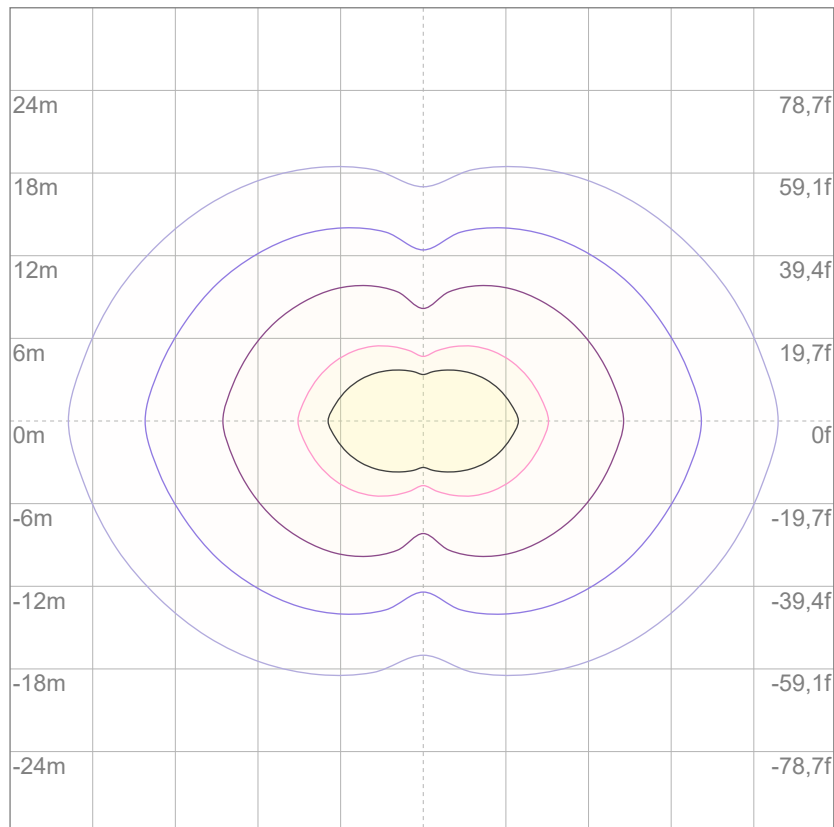
10%	140 cd
20%	281 cd
30%	421 cd
40%	561 cd
50%	701 cd
60%	842 cd
70%	982 cd
80%	1122 cd

Conditions:

Number of c-planes: 4

Candela at center: 1403 cd

ISO LUX DIAGRAM



3%	0,421 lx
5%	0,701 lx
10%	1,40 lx
30%	4,21 lx
50%	7,01 lx

Conditions:

Number of c-planes: 4

Lux at center: 14,0 lx

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