

Photometric Test Report



ARCSHINES9VW

9 x 2 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:

1195 lm

Peak candela output:

6305 cd

Light quality:

CRI: 85,4

Color temperature:

4245 K



PRODUCT NAME:

ARCSHINES9VW

MEASURAMENT CONDITIONS:

Beam angle:

15°

Target:

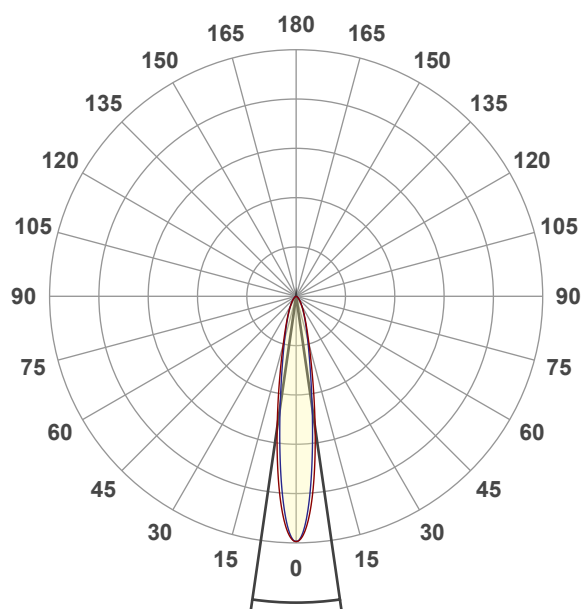
Full on

Operator:

Paolo Carvone

Date and time:

08/09/2022 10:12:48

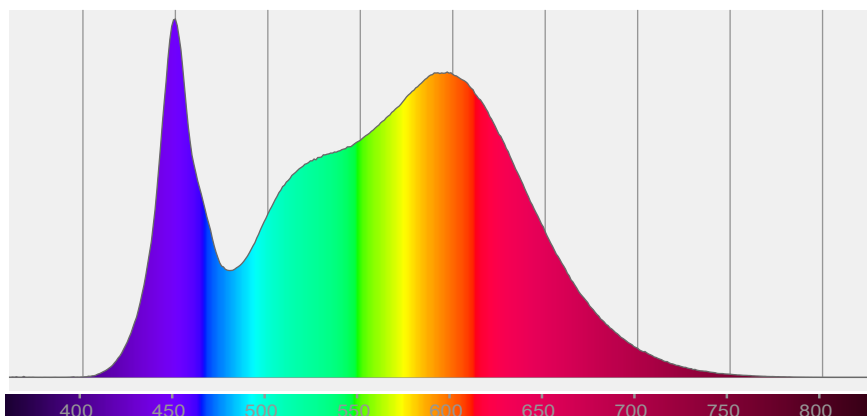


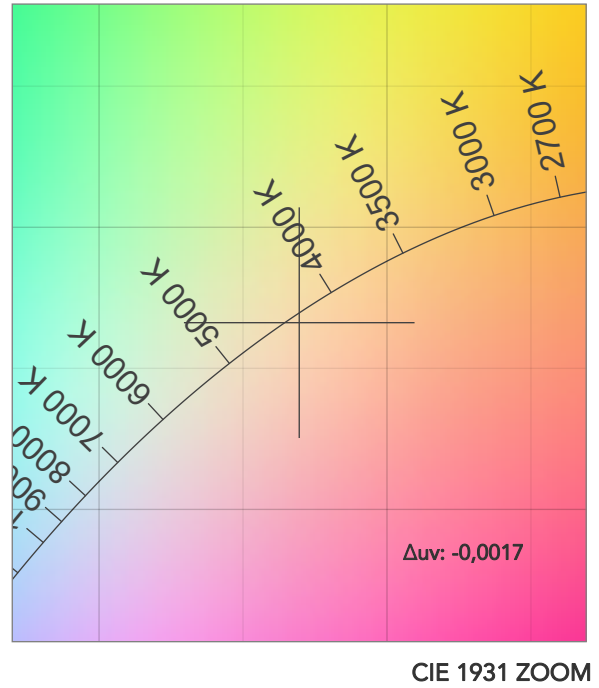
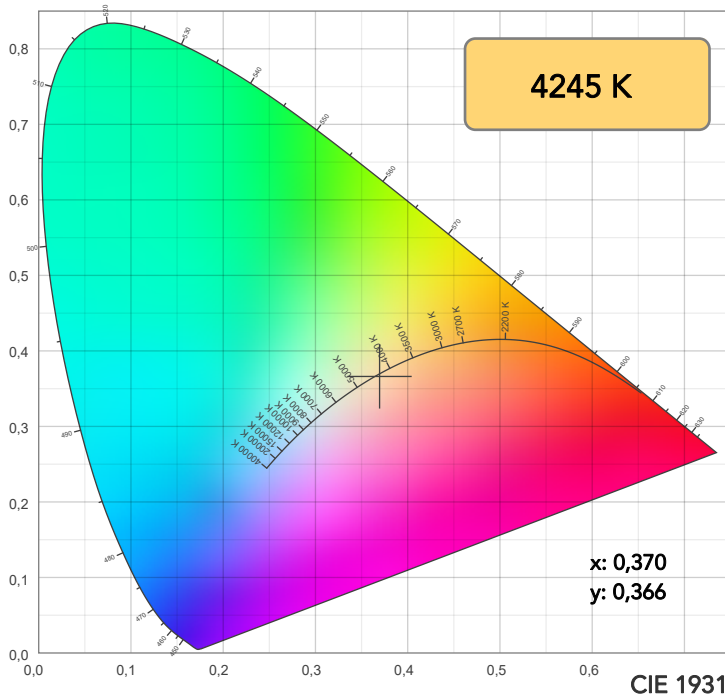
Beam angle 50%: 16,4°

Field angle 10%: 42,3°

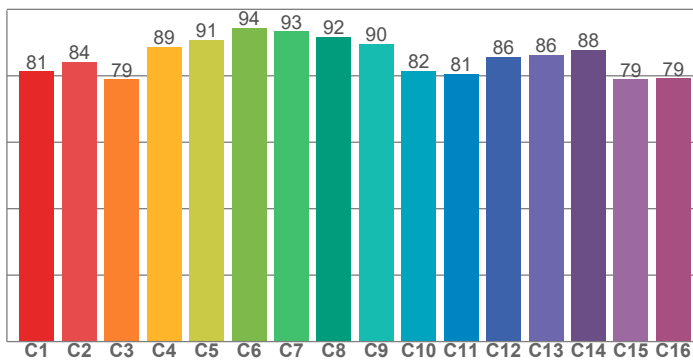
Cut off angle 2.5%: 76,6°

Spectra

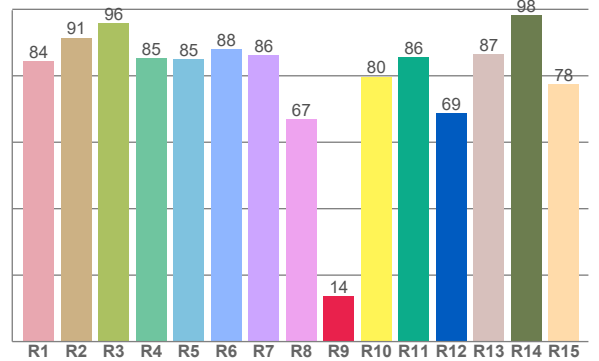




TM30: 85,5



CRI: 85,4 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
84,4	91,5	95,8	85,3	84,9	88,1	86,3	66,9	13,6	79,7	85,6	68,8	86,5	98,1	77,6

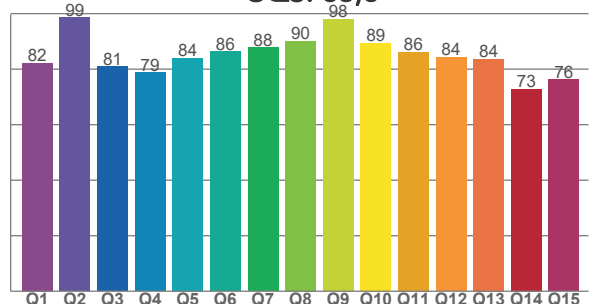
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81,4	84,2	78,9	88,7	90,8	94,4	93,4	91,7	89,5	81,5	80,6	85,8	86,3	87,7	78,9	79,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
82,2	98,6	80,9	78,7	84,0	86,4	87,8	90,1	98,1	89,4	86,1	84,3	83,7	72,8	76,2

CQS: 83,8



COLOR PARAMETERS

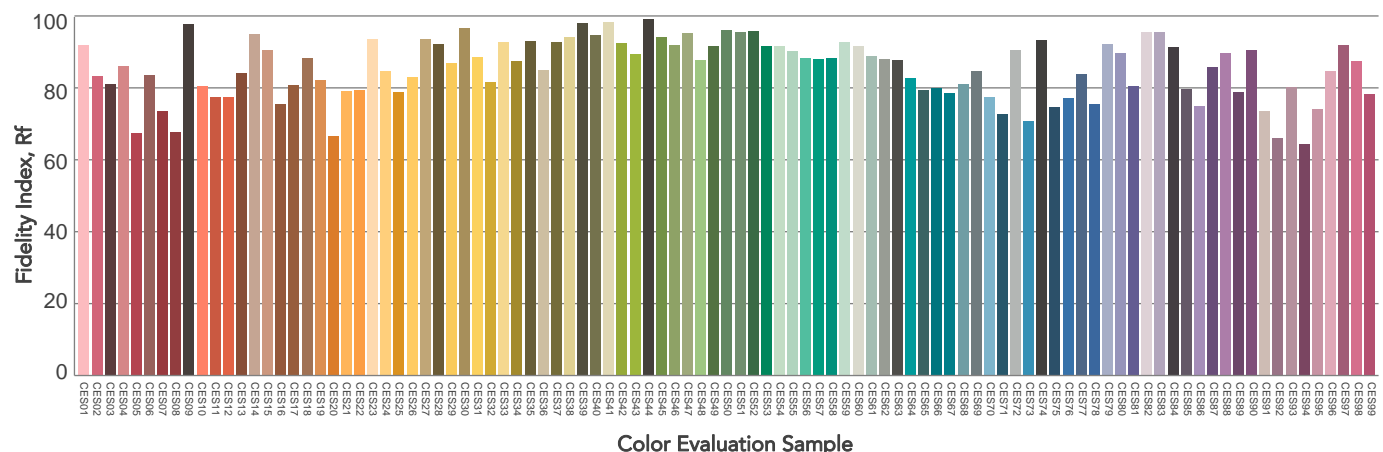
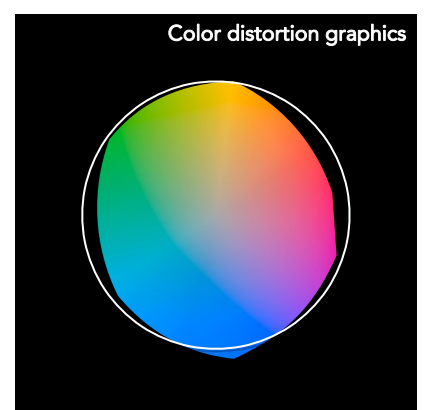
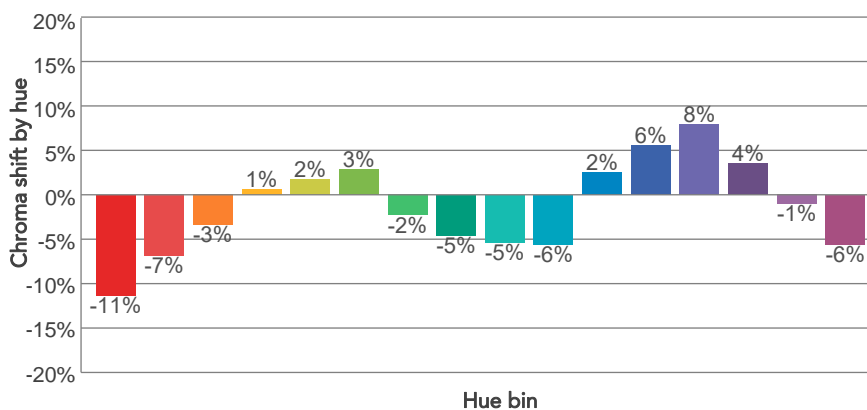
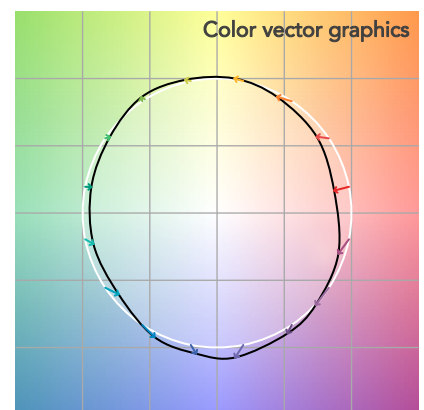
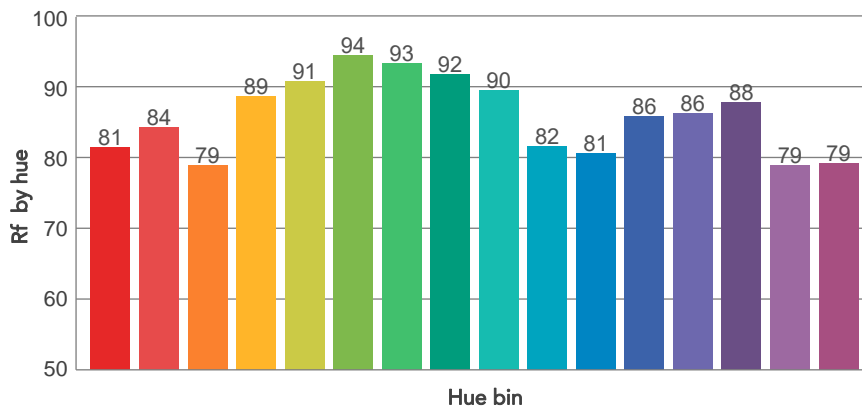
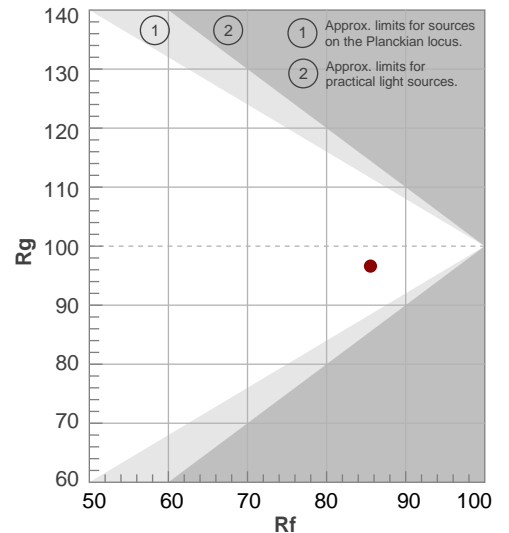
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4245 K	85,4	13,6	85,5	96,6	83,8	70	0,370	0,366	-0,0017

TM30 DETAILS

Rf 85,5
Fidelity index Rf

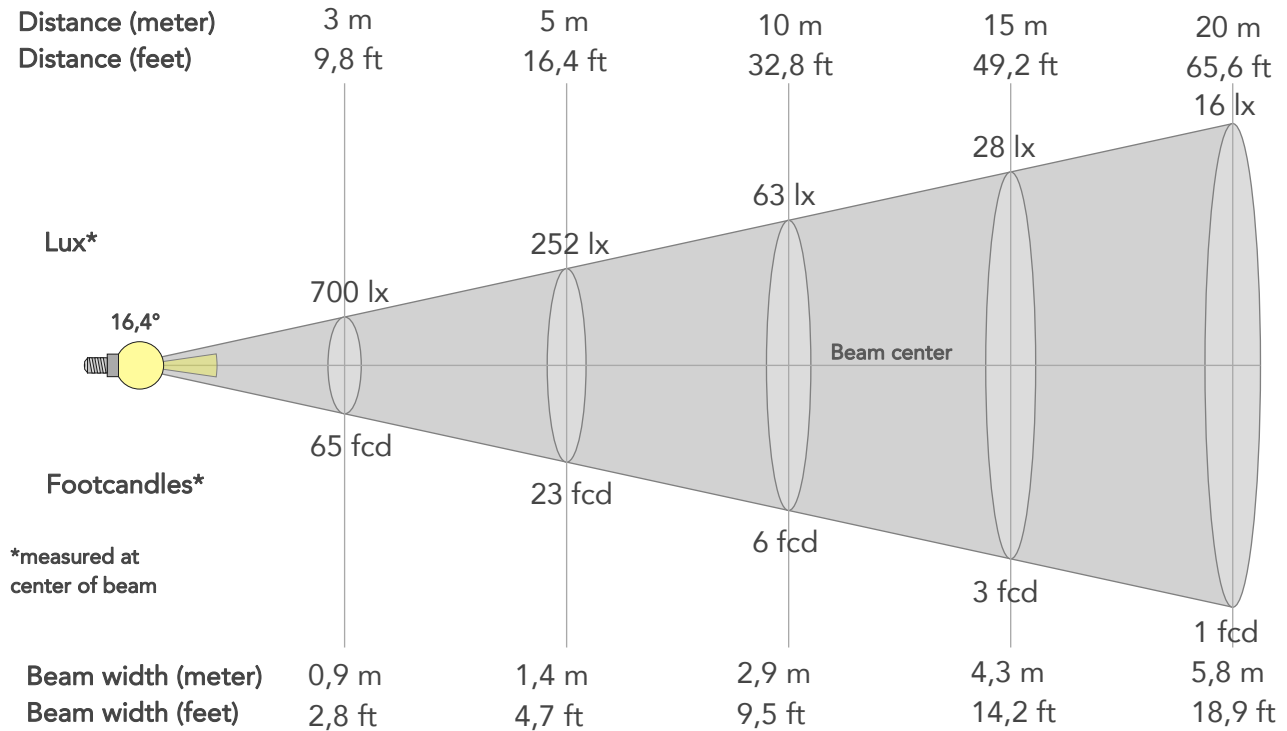
Rg 96,6
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	81	-11%	-1%
2	84	-7%	6%
3	79	-3%	11%
4	89	1%	7%
5	91	2%	4%
6	94	3%	-1%
7	93	-2%	-3%
8	92	-5%	-1%
9	90	-5%	5%
10	82	-6%	10%
11	81	2%	13%
12	86	6%	5%
13	86	8%	-8%
14	88	4%	-6%
15	79	-1%	-16%
16	79	-6%	-12%



BEAM DETAILS

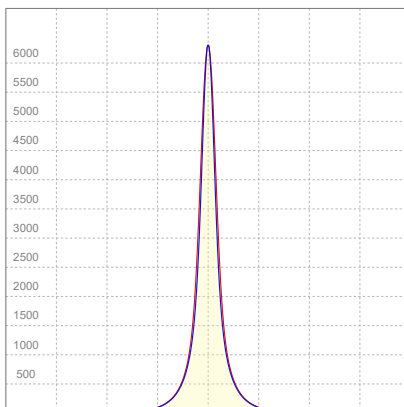
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16,4°	42,3°	76,6°	98,8%	92,5%



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	6300lx	1575lx	700lx	394lx	252lx	112lx	63lx	28lx	16lx	10lx	7lx	4lx	3lx
Footcand.	585fcd	146fcd	65fcd	37fcd	23fcd	10fcd	6fcd	3fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,4m	2,2m	2,9m	4,3m	5,8m	7,2m	8,7m	11,6m	14,4m
Beam wid.	1ft	1,9ft	2,8ft	3,8ft	4,7ft	7,1ft	9,5ft	14,2ft	18,9ft	23,7ft	28,4ft	37,9ft	47,4ft

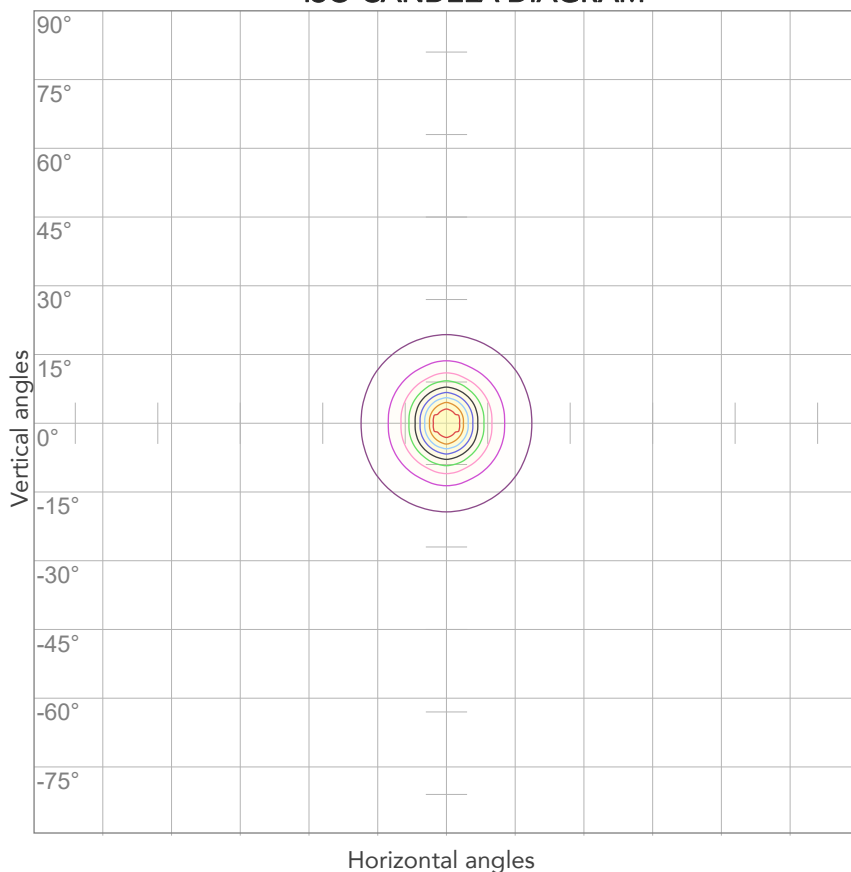
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,120A	23,8W	50lm/W

ISO CANDELA DIAGRAM



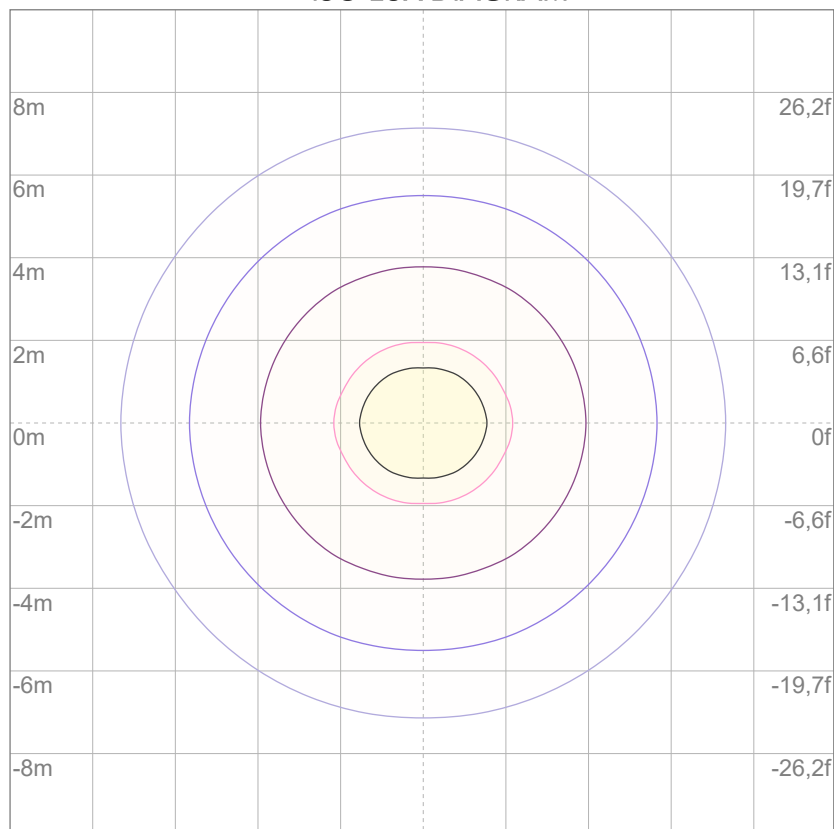
10%	630 cd
20%	1260 cd
30%	1890 cd
40%	2520 cd
50%	3150 cd
60%	3780 cd
70%	4410 cd
80%	5040 cd

Conditions:

Number of c-planes: 4

Candela at center: 6300 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,89 lx
5%	3,15 lx
10%	6,30 lx
30%	18,9 lx
50%	31,5 lx

Conditions:

Number of c-planes: 4

Lux at center: 63,0 lx

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

Total lumen output:

1063 lm

Peak candela output:

2206 cd

Light quality:

CRI: 85,3

Color temperature:

4240 K



PRODUCT NAME:

ARCSHINES9VW

MEASURAMENT CONDITIONS:

Beam angle:

20°

Target:

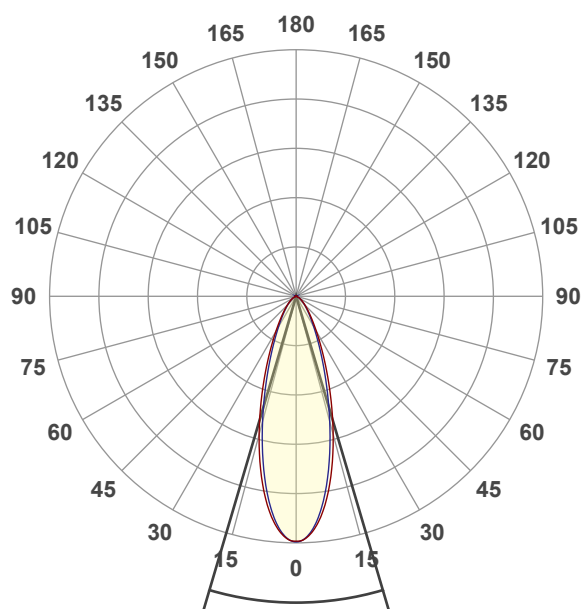
Full on

Operator:

Paolo Carvone

Date and time:

08/09/2022 11:10:49

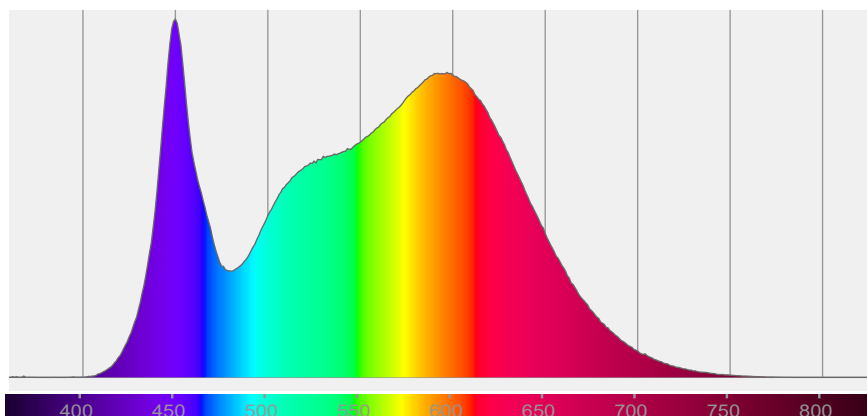


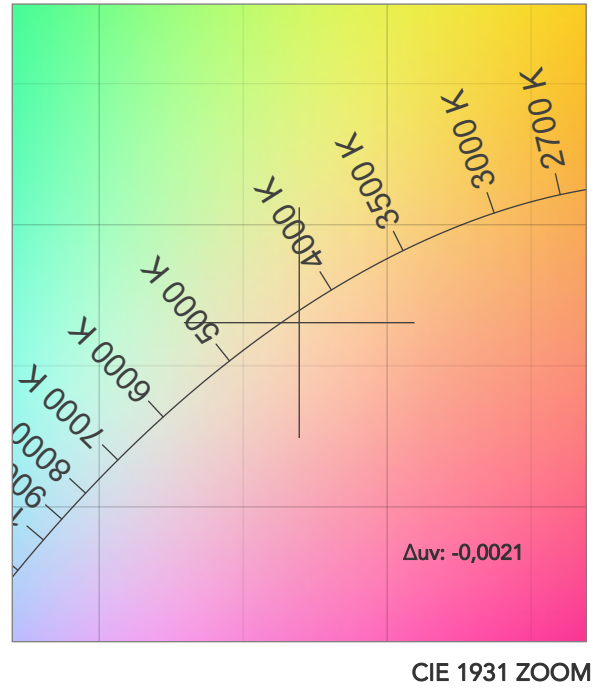
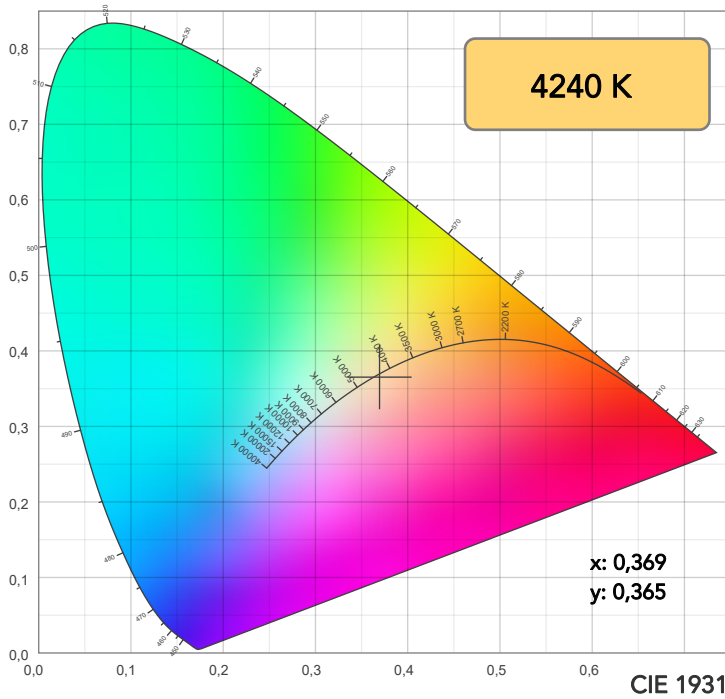
Beam angle 50%: 32,9°

Field angle 10%: 70,7°

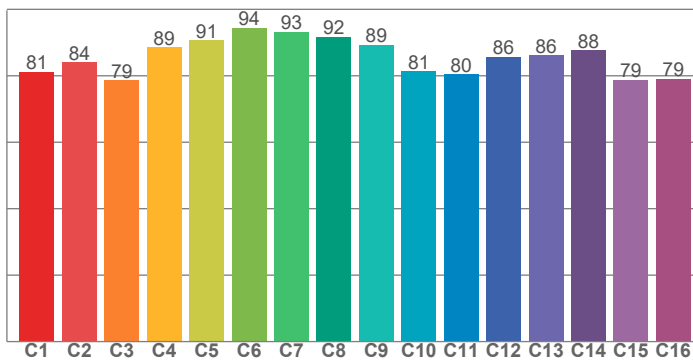
Cut off angle 2.5%: 108,4°

Spectra

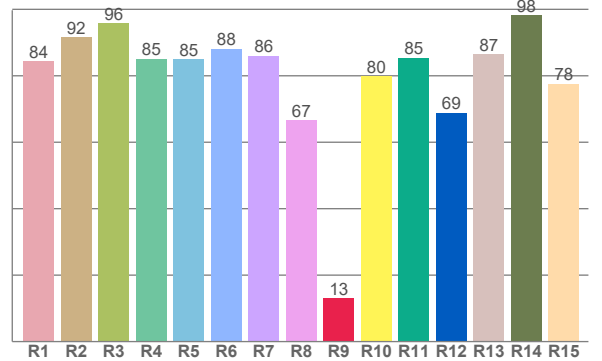




TM30: 85,4



CRI: 85,3 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
84,4	91,6	95,8	85,1	84,9	88,2	86,0	66,5	13,1	79,9	85,4	68,9	86,6	98,2	77,6

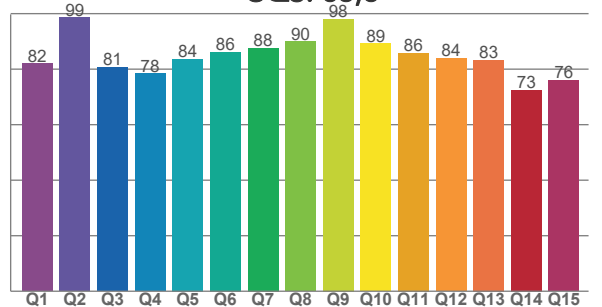
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81,2	84,0	78,6	88,6	90,7	94,4	93,3	91,7	89,4	81,3	80,4	85,6	86,1	87,7	78,8	79,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
82,1	98,6	80,6	78,4	83,7	86,2	87,7	90,0	98,1	89,3	85,8	83,9	83,4	72,6	76,0

CQS: 83,6



COLOR PARAMETERS

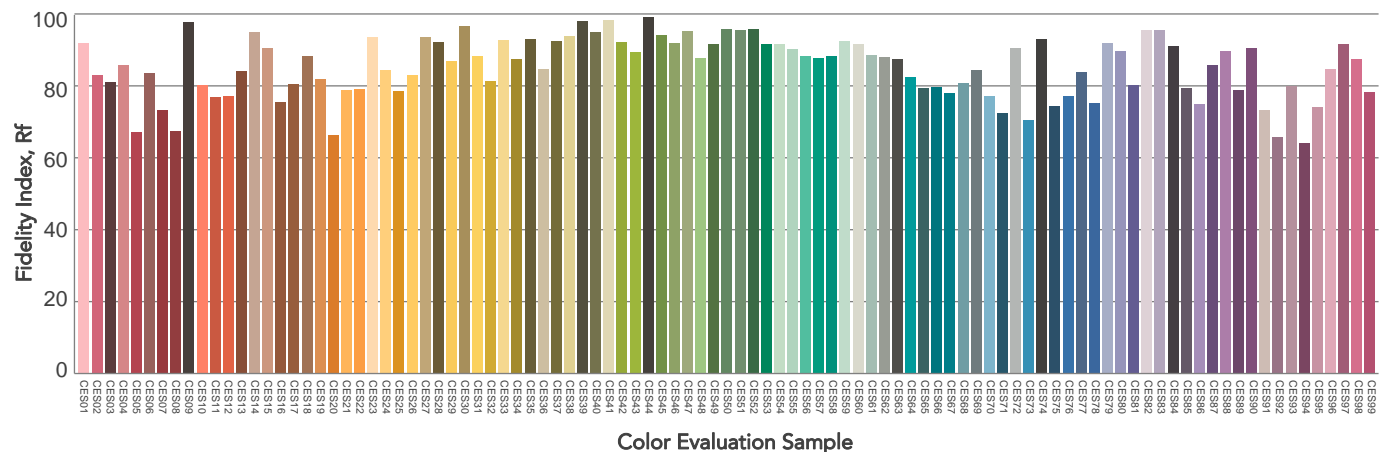
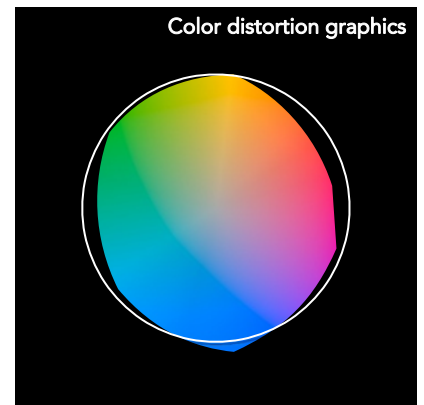
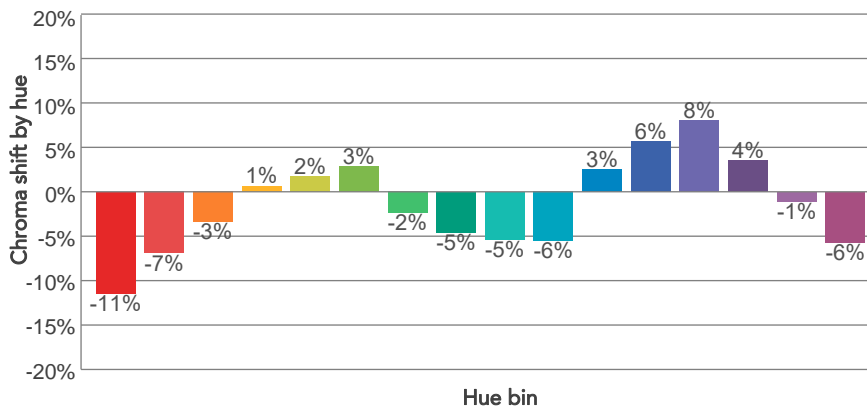
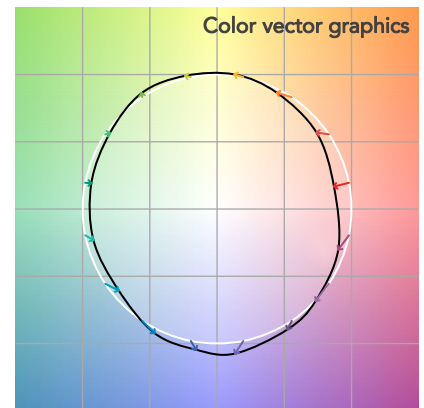
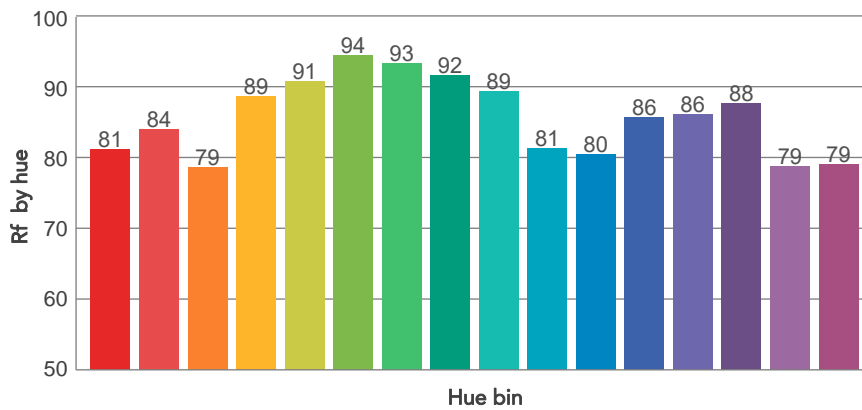
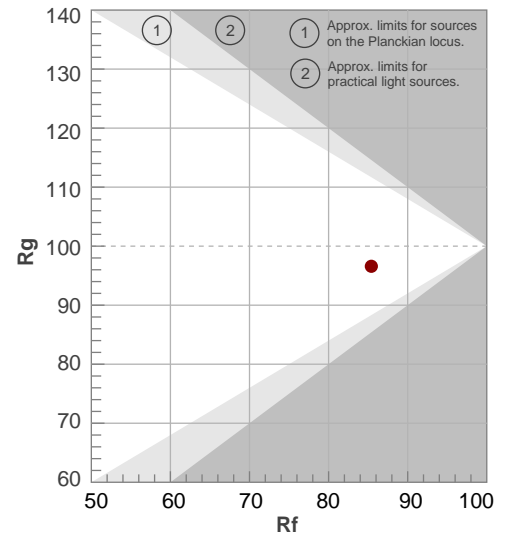
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4240 K	85,3	13,1	85,4	96,6	83,6	69	0,369	0,365	-0,0021

TM30 DETAILS

Rf 85,4
Fidelity index Rf

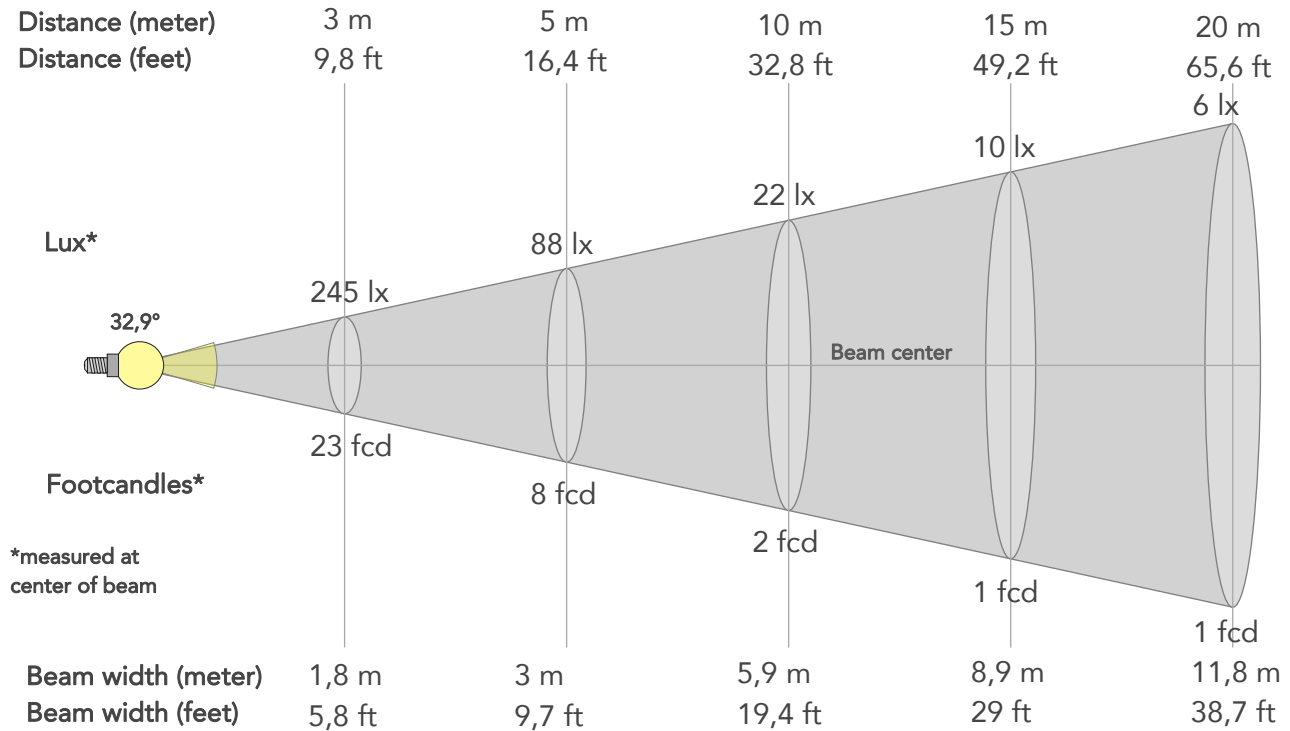
Rg 96,6
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	81	-11%	-1%
2	84	-7%	6%
3	79	-3%	11%
4	89	1%	7%
5	91	2%	4%
6	94	3%	-1%
7	93	-2%	-3%
8	92	-5%	-1%
9	89	-5%	5%
10	81	-6%	10%
11	80	3%	13%
12	86	6%	5%
13	86	8%	-8%
14	88	4%	-6%
15	79	-1%	-16%
16	79	-6%	-12%



BEAM DETAILS

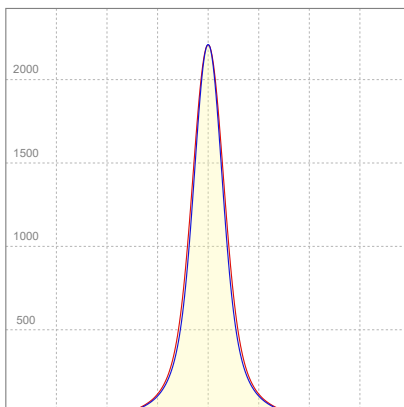
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32,9°	70,7°	108,4°	98,1%	90,3%



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	2204lx	551lx	245lx	138lx	88lx	39lx	22lx	10lx	6lx	4lx	2lx	1lx	1lx
Footcand.	205fcd	51fcd	23fcd	13fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,2m	1,8m	2,4m	3m	4,4m	5,9m	8,9m	11,8m	14,8m	17,7m	23,6m	29,5m
Beam wid.	1,9ft	3,9ft	5,8ft	7,7ft	9,7ft	14,5ft	19,4ft	29ft	38,7ft	48,4ft	58,1ft	77,4ft	96,8ft

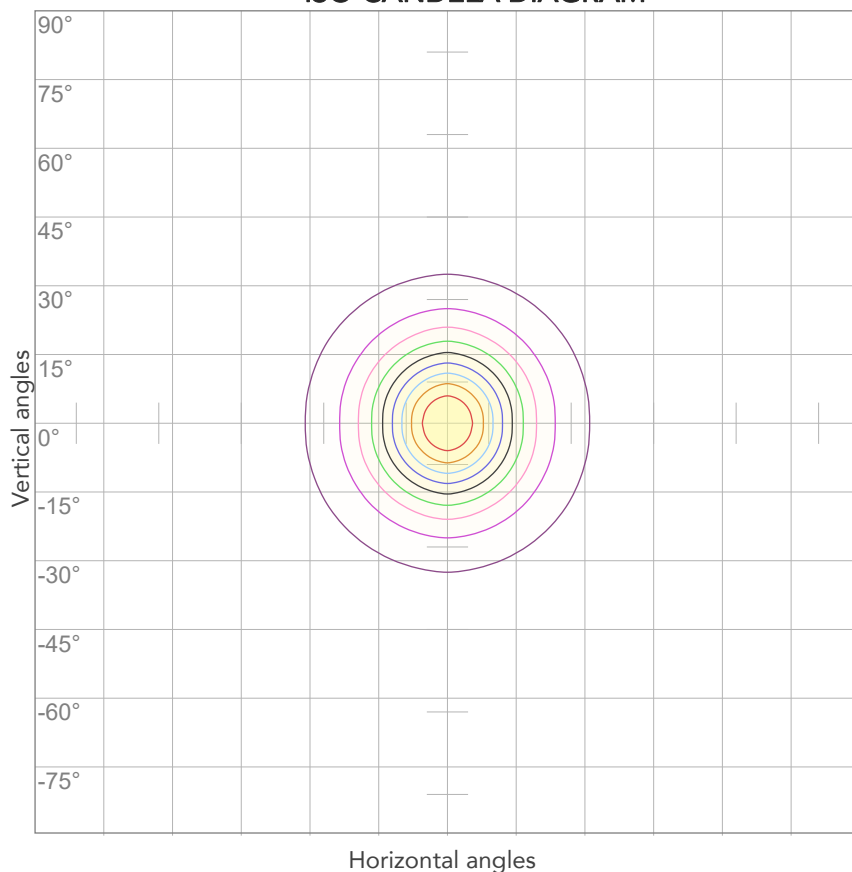
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,119A	23,6W	45lm/W

ISO CANDELA DIAGRAM



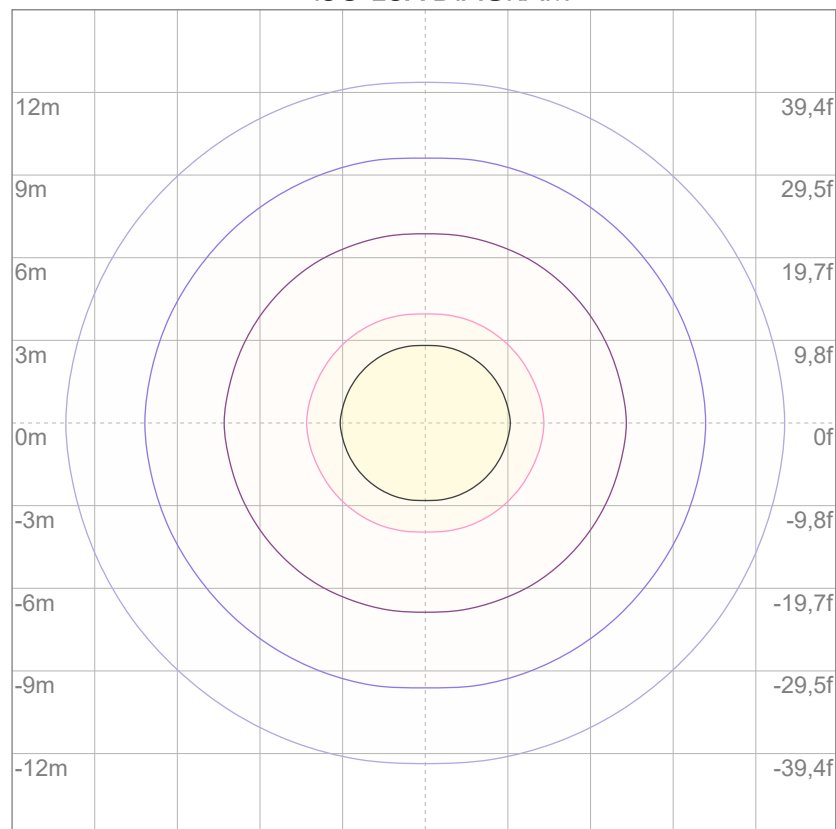
10%	220 cd
20%	441 cd
30%	661 cd
40%	881 cd
50%	1102 cd
60%	1322 cd
70%	1543 cd
80%	1763 cd

Conditions:

Number of c-planes: 4

Candela at center: 2204 cd

ISO LUX DIAGRAM



3%	0,661 lx
5%	1,10 lx
10%	2,20 lx
30%	6,61 lx
50%	11,0 lx

Conditions:

Number of c-planes: 4

Lux at center: 22,0 lx

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

Total lumen output:

1056 lm

Peak candela output:

751 cd

Light quality:

CRI: 85,8

Color temperature:

4278 K



PRODUCT NAME:

ARCSHINES9VW

MEASURAMENT CONDITIONS:

Beam angle:

15° + Filter 60°

Target:

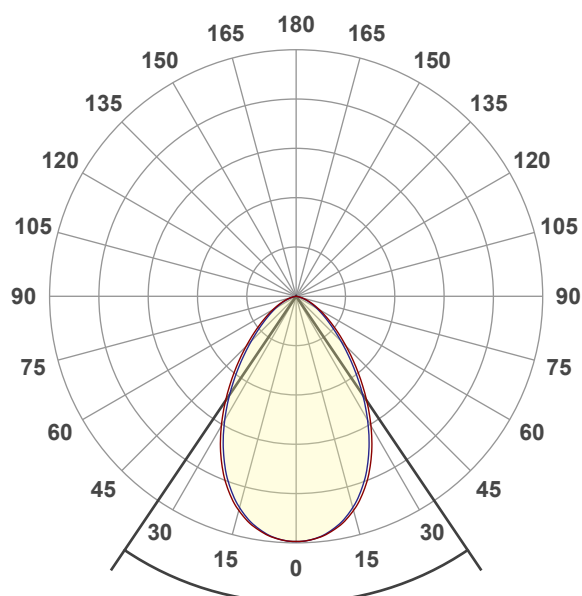
Full on

Operator:

Paolo Carvone

Date and time:

08/09/2022 11:25:32

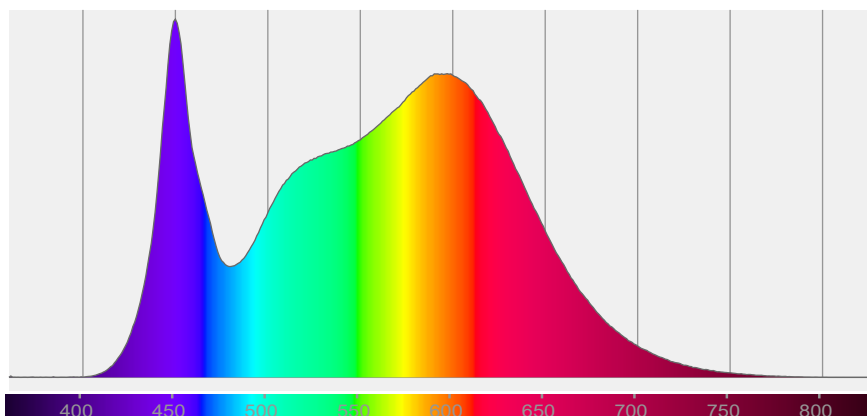


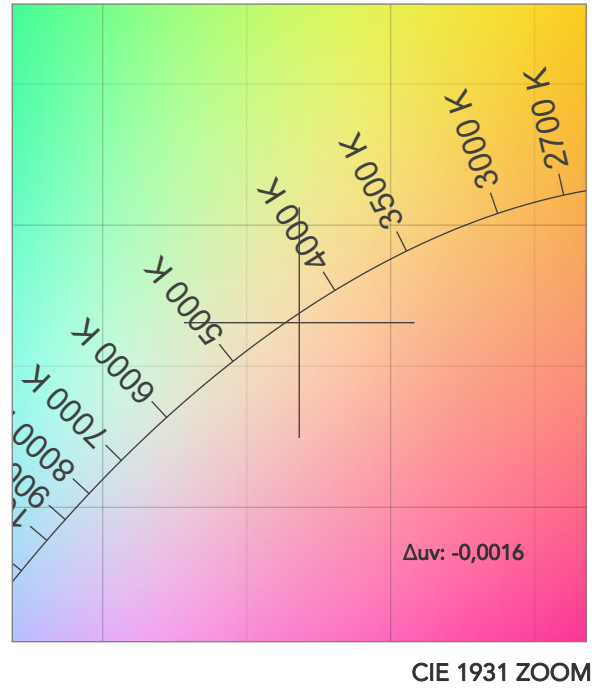
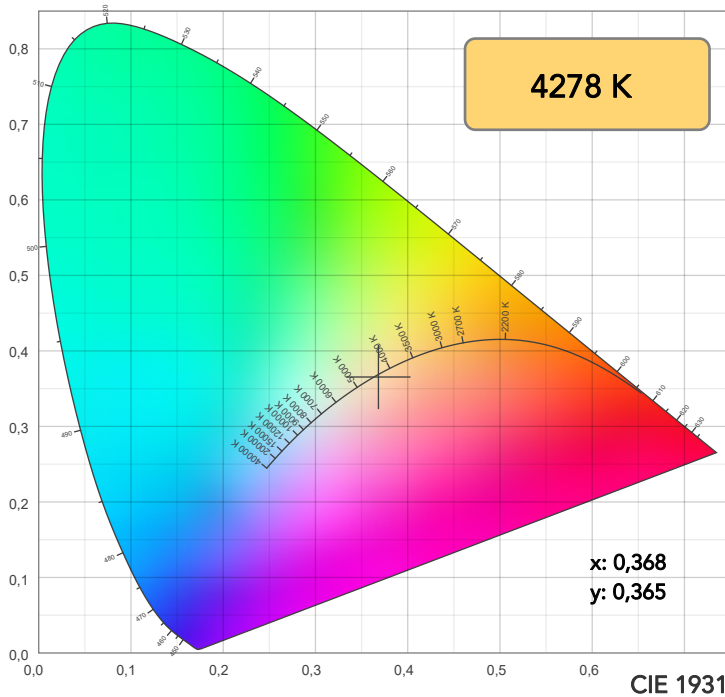
Beam angle 50%: 68,1°

Field angle 10%: 120,7°

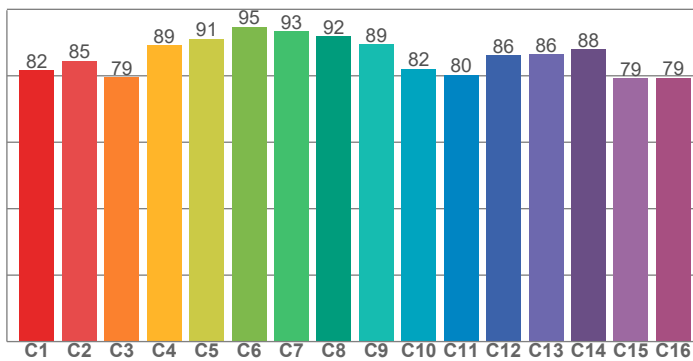
Cut off angle 2.5%: 148°

Spectra

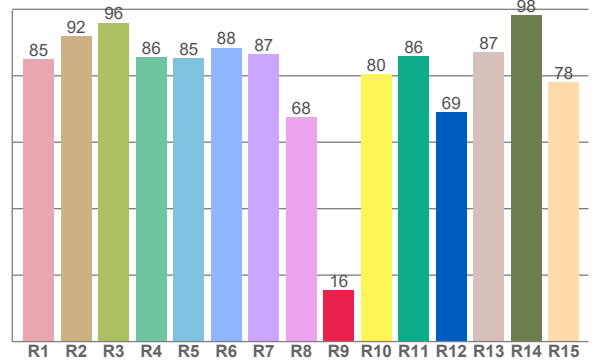




TM30: 85,8



CRI: 85,8 (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
84,9	91,9	96,0	85,5	85,3	88,5	86,5	67,5	15,5	80,5	85,9	69,0	87,0	98,2	78,1

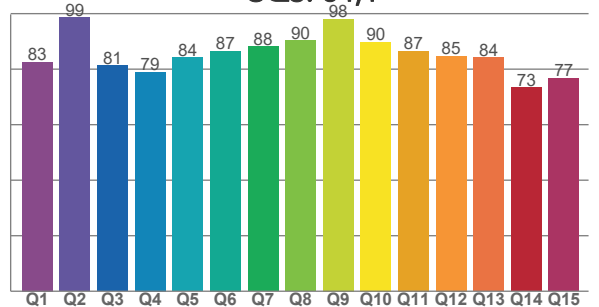
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81,7	84,5	79,5	89,1	91,0	94,7	93,4	91,8	89,5	82,1	80,4	86,1	86,4	88,0	79,2	79,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
82,5	98,6	81,3	78,9	84,1	86,5	88,1	90,3	98,1	89,8	86,5	84,7	84,1	73,4	76,7

CQS: 84,1



COLOR PARAMETERS

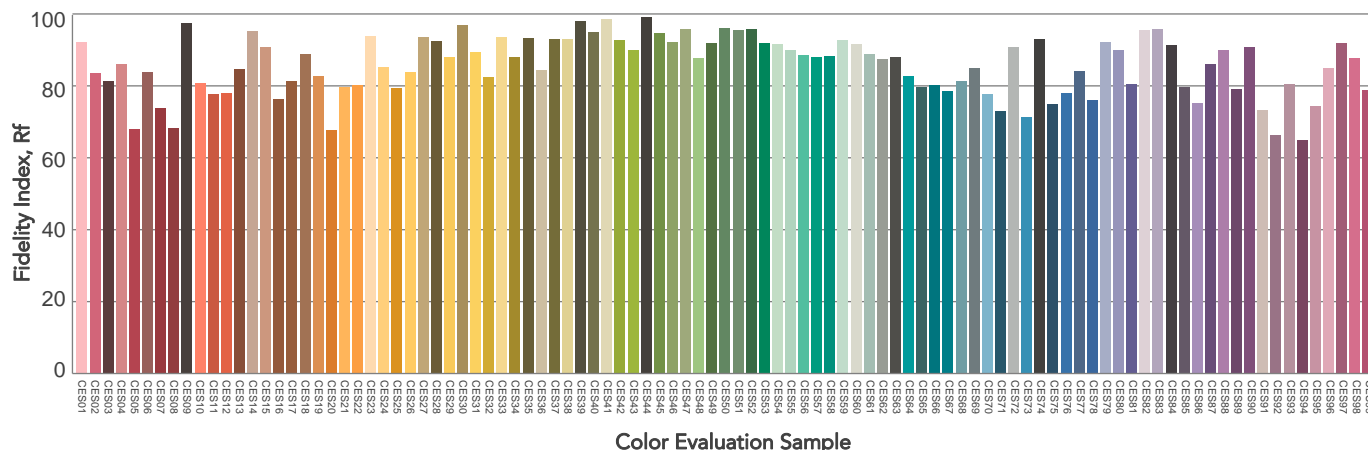
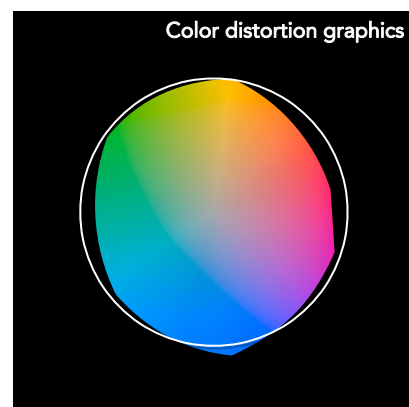
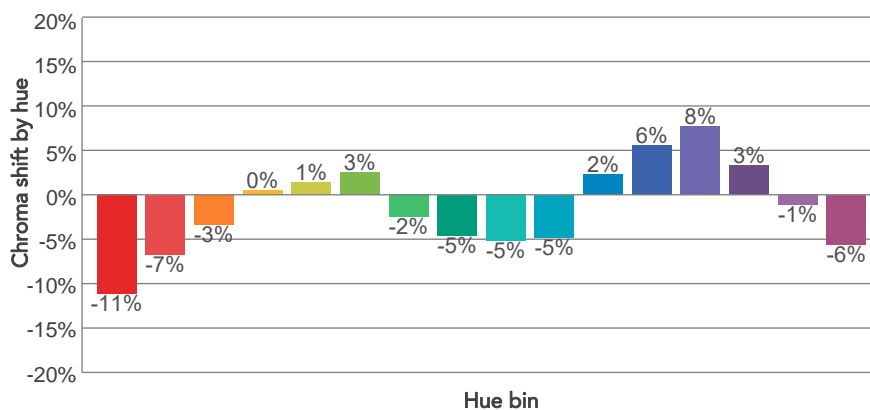
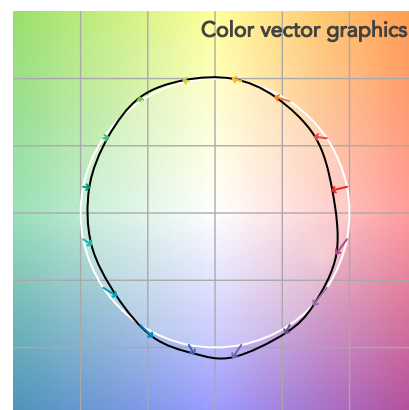
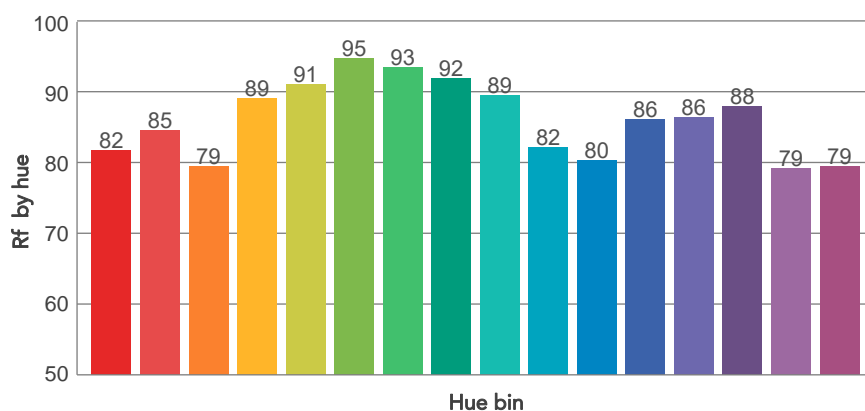
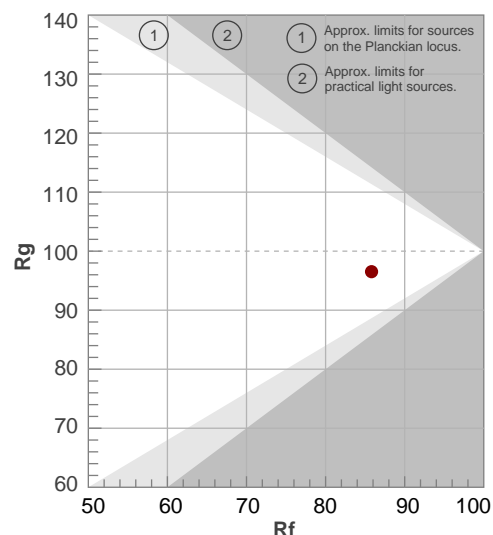
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4278 K	85,8	15,5	85,8	96,5	84,1	71	0,368	0,365	-0,0016

TM30 DETAILS

Rf 85,8
Fidelity index Rf

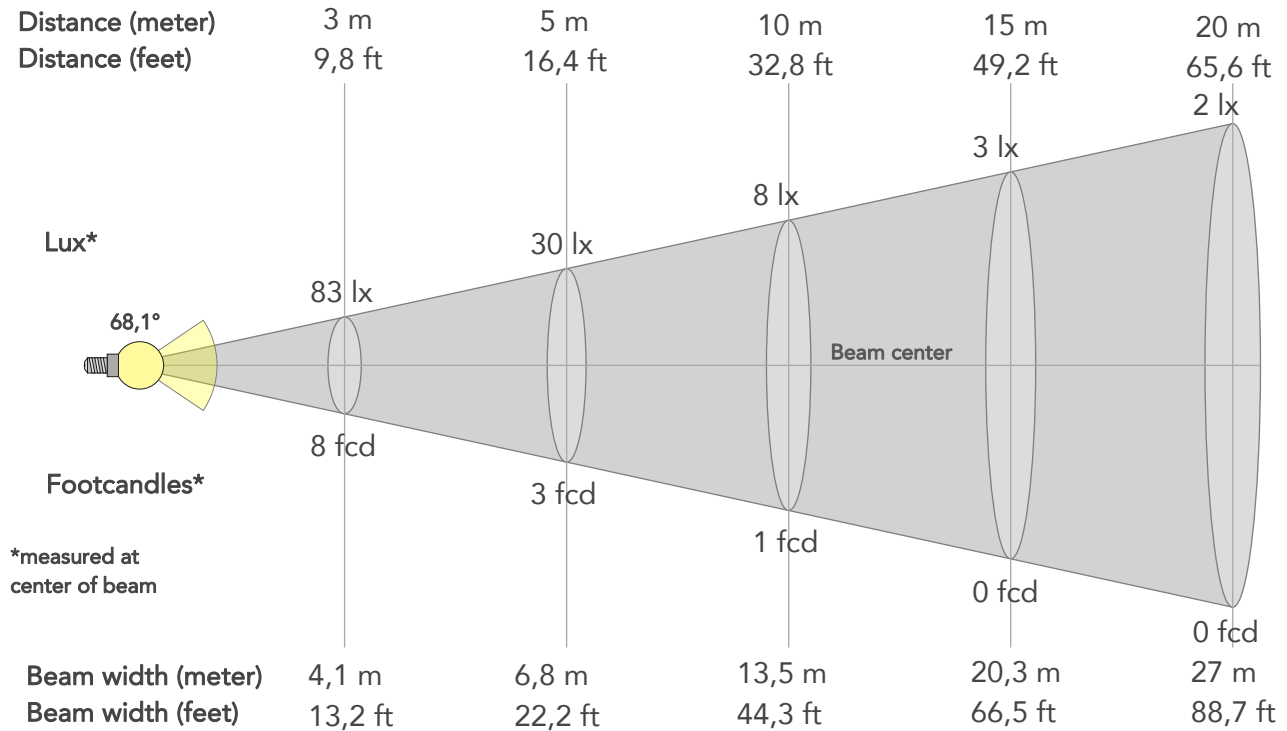
Rg 96,5
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	82	-11%	-1%
2	85	-7%	6%
3	79	-3%	10%
4	89	0%	6%
5	91	1%	4%
6	95	3%	-1%
7	93	-2%	-3%
8	92	-5%	0%
9	89	-5%	5%
10	82	-5%	10%
11	80	2%	12%
12	86	6%	5%
13	86	8%	-8%
14	88	3%	-6%
15	79	-1%	-16%
16	79	-6%	-12%



BEAM DETAILS

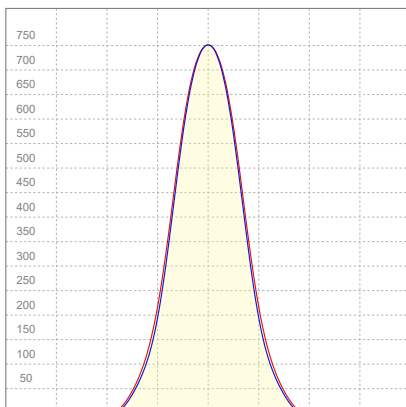
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
68,1°	120,7°	148°	93,3%	77,2%



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	751lx	188lx	83lx	47lx	30lx	13lx	8lx	3lx	2lx	1lx	1lx	0lx	0lx
Footcand.	70fcd	17fcd	8fcd	4fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,4m	2,7m	4,1m	5,4m	6,8m	10,1m	13,5m	20,3m	27m	33,8m	40,6m	54,1m	67,6m
Beam wid.	4,5ft	8,9ft	13,2ft	17,7ft	22,2ft	33,3ft	44,3ft	66,5ft	88,7ft	110,8ft	133ft	177,3ft	221,7ft

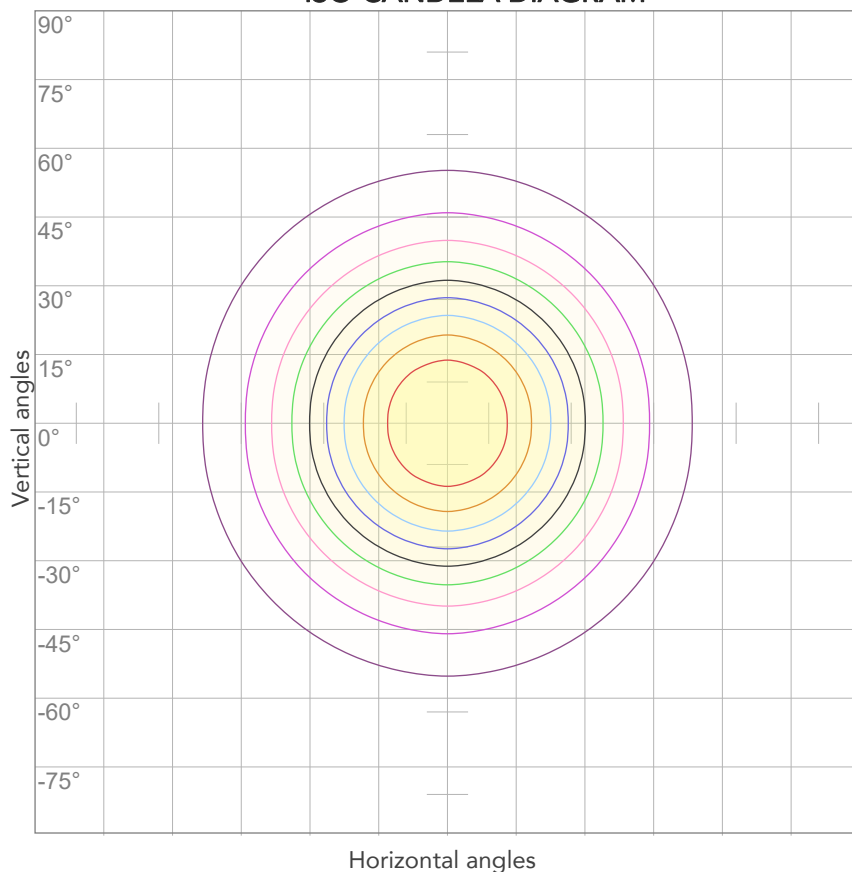
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Efficiency
224V	0,119A	23,6W	45lm/W

ISO CANDELA DIAGRAM



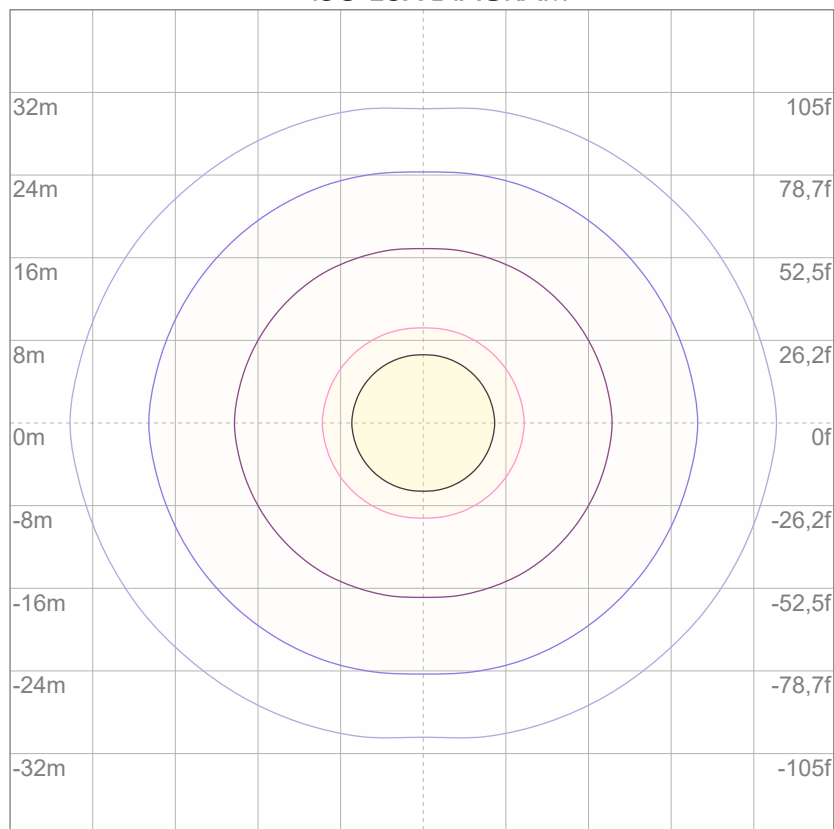
10%	75 cd
20%	150 cd
30%	225 cd
40%	300 cd
50%	375 cd
60%	450 cd
70%	525 cd
80%	600 cd

Conditions:

Number of c-planes: 4

Candela at center: 751 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,225 lx
5%	0,375 lx
10%	0,751 lx
30%	2,25 lx
50%	3,75 lx

Conditions:

Number of c-planes: 4

Lux at center: 7,51 lx

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

Total lumen output:

1332 lm

Peak candela output:

1494 cd

Light quality:

CRI: 85,8

Color temperature:

4289 K



PRODUCT NAME:

ARCSHINES9VW

MEASURAMENT CONDITIONS:

Beam angle:

15° + Filter 10°x60°

Target:

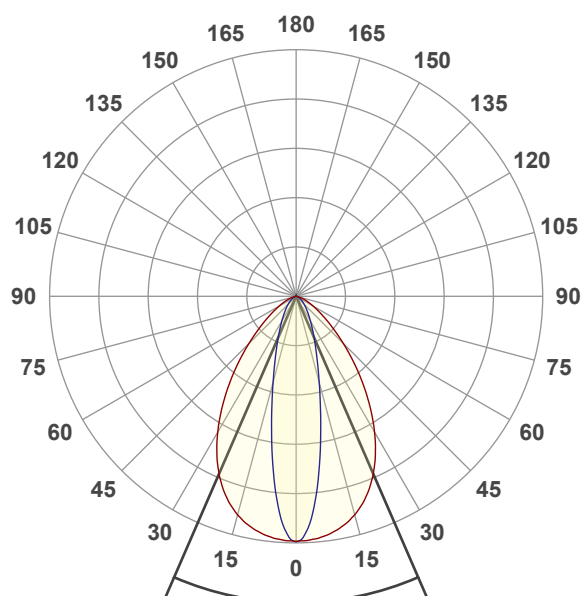
Full on

Operator:

Paolo Carvone

Date and time:

08/09/2022 11:51:46

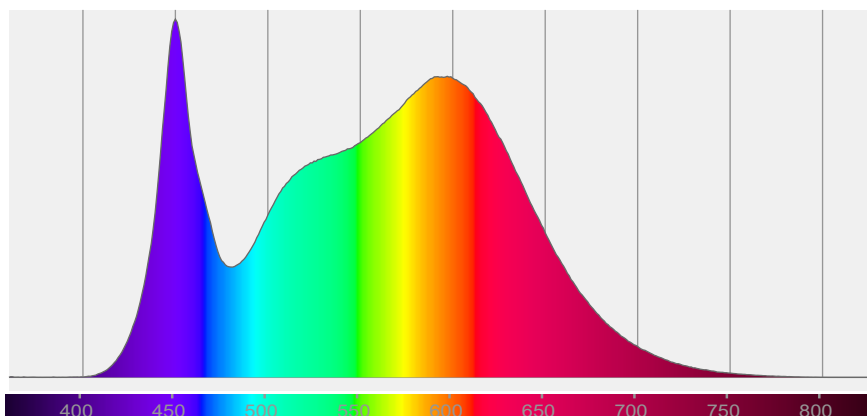


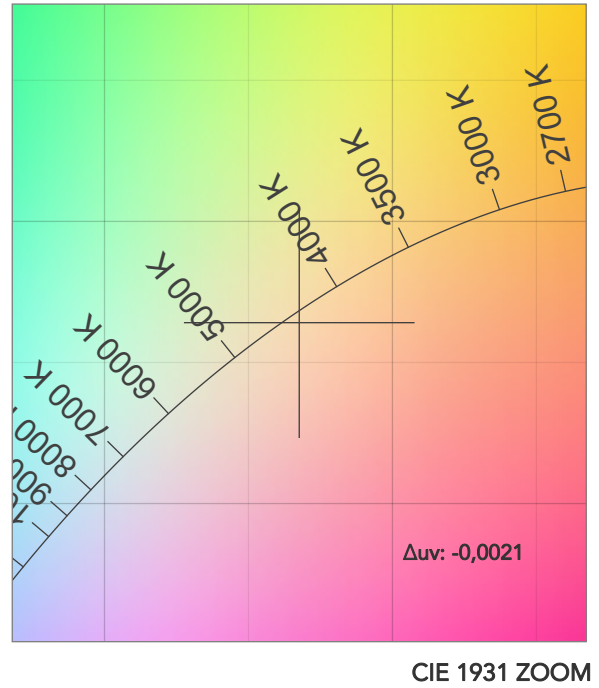
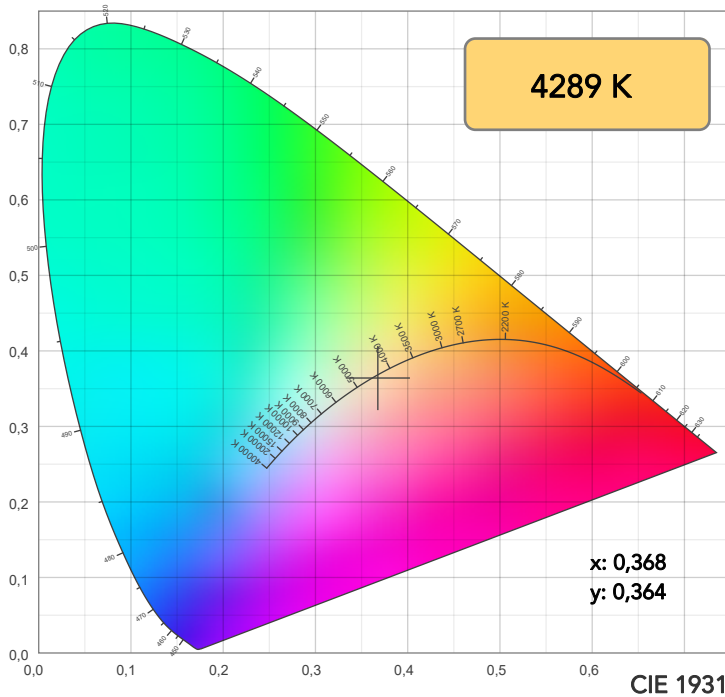
Beam angle 50%: 47°

Field angle 10%: 90°

Cut off angle 2.5%: 126°

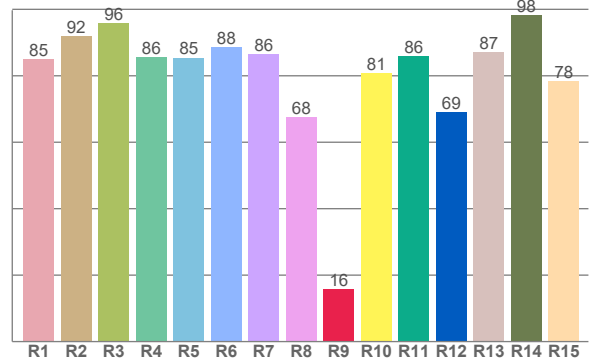
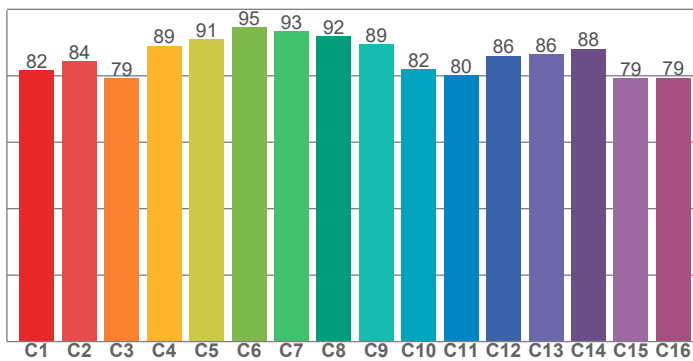
Spectra





TM30: 85,7

CRI: 85,8 (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
85,0	92,0	95,9	85,5	85,4	88,5	86,4	67,6	15,8	80,7	85,8	69,1	87,1	98,2	78,4

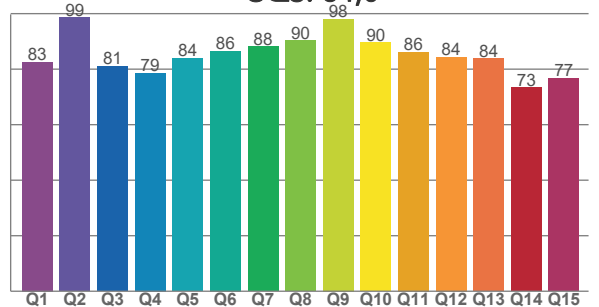
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81,6	84,4	79,3	89,0	90,9	94,6	93,4	91,8	89,4	82,0	80,2	86,0	86,4	88,0	79,2	79,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
82,6	98,6	81,0	78,6	83,9	86,5	88,1	90,3	98,1	89,6	86,2	84,4	83,8	73,4	76,7

CQS: 84,0



COLOR PARAMETERS

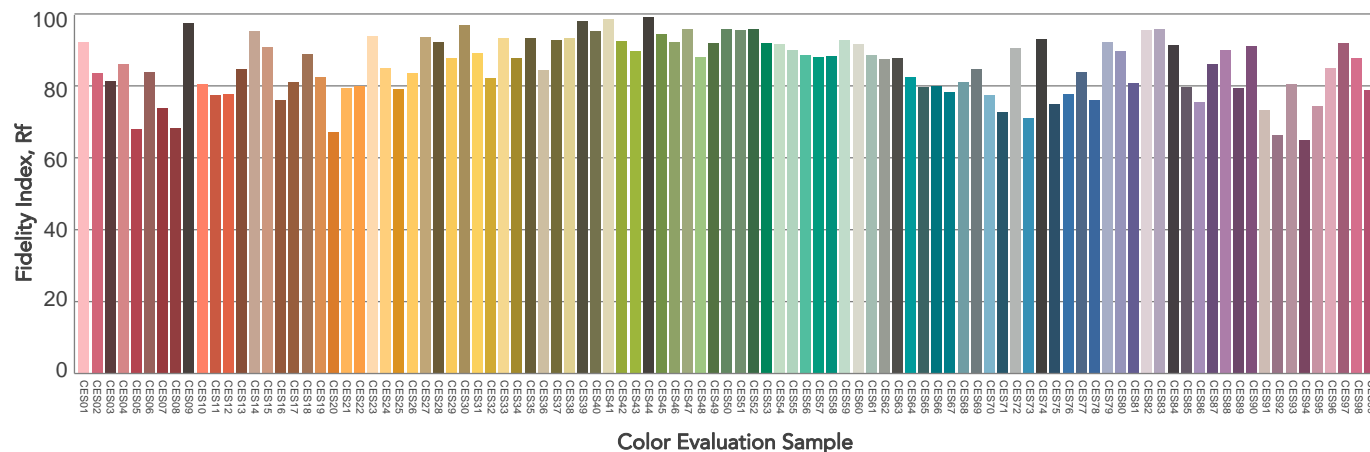
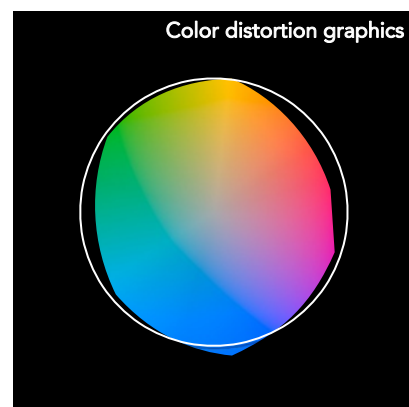
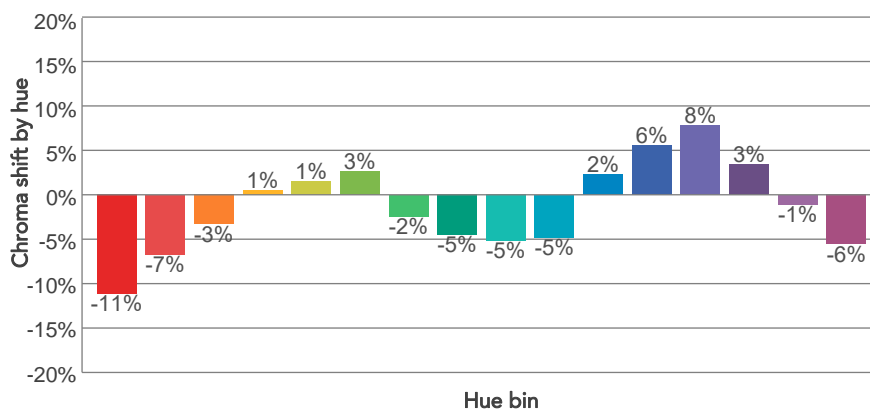
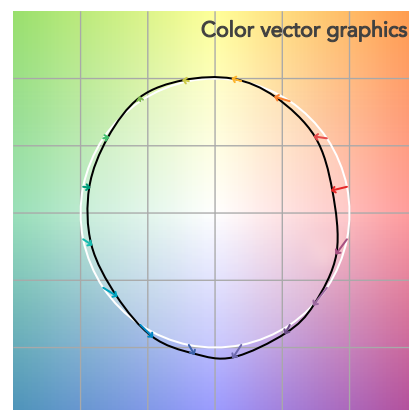
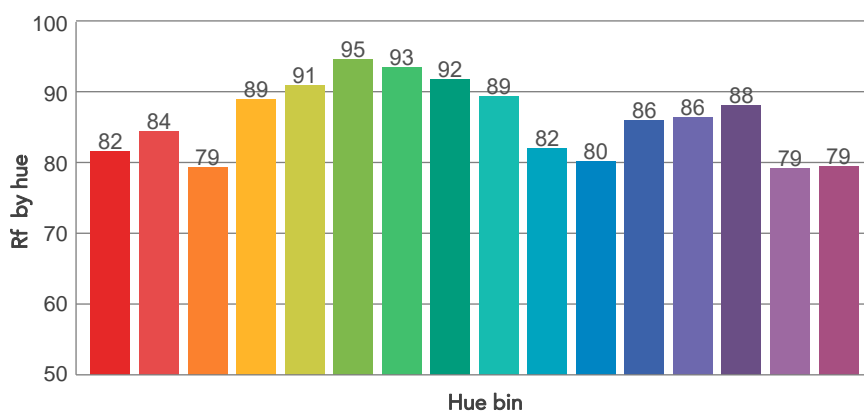
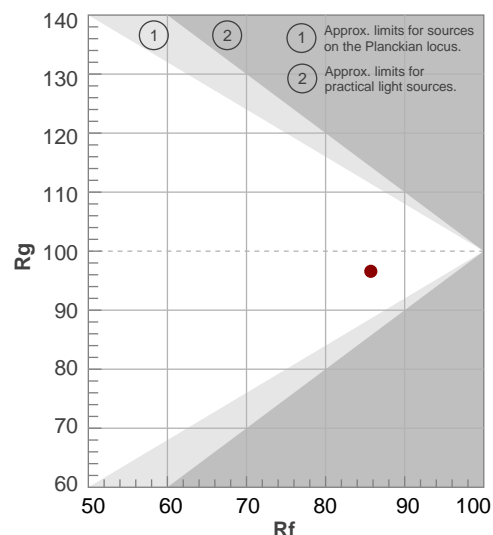
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4289 K	85,8	15,8	85,7	96,6	84,0	71	0,368	0,364	-0,0021

TM30 DETAILS

Rf 85,7
Fidelity index Rf

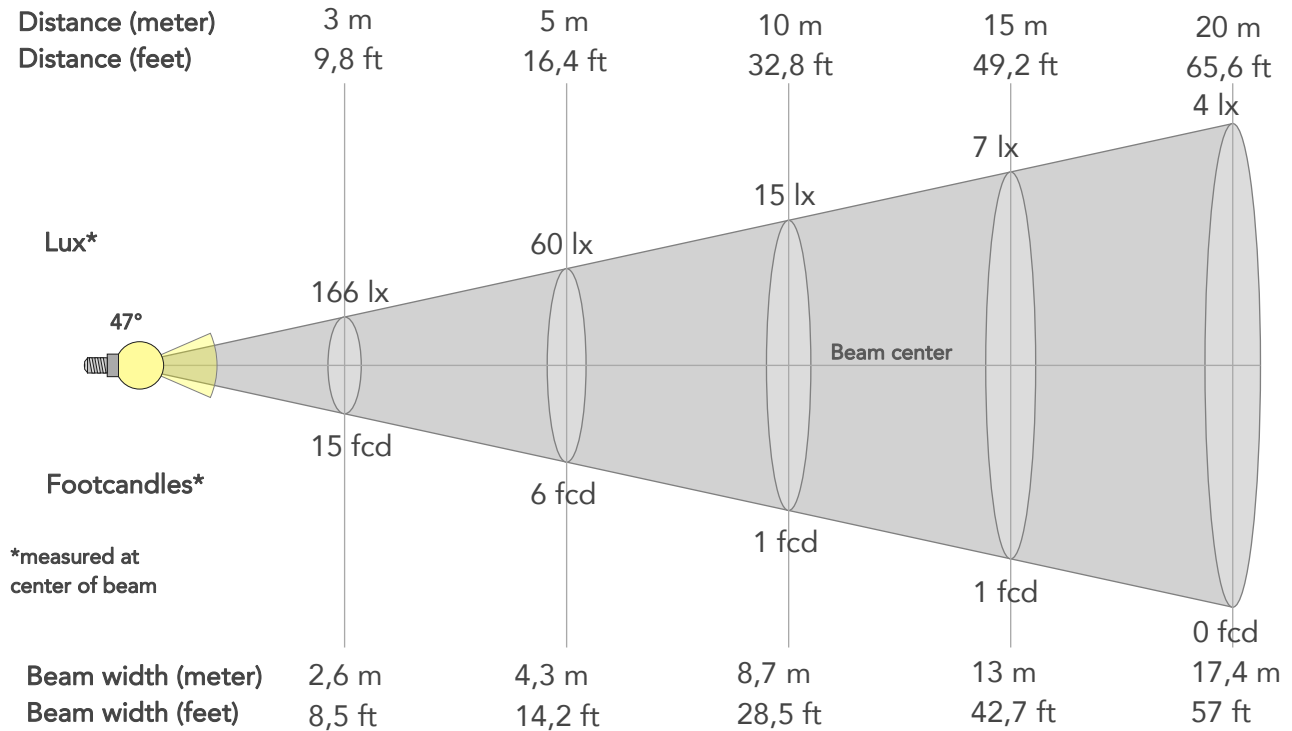
Rg 96,6
Gammut index

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	3%	-1%
7	93	-2%	-3%
8	92	-5%	0%
9	89	-5%	5%
10	82	-5%	10%
11	80	2%	12%
12	86	6%	5%
13	86	8%	-8%
14	88	3%	-6%
15	79	-1%	-16%
16	79	-6%	-12%



BEAM DETAILS

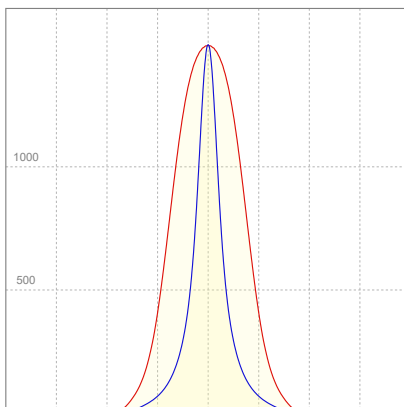
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
47°	90°	126°	95,5%	81,9%



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	1493lx	373lx	166lx	93lx	60lx	27lx	15lx	7lx	4lx	2lx	2lx	1lx	1lx
Footcand.	139fcd	35fcd	15fcd	9fcd	6fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,7m	2,6m	3,5m	4,3m	6,5m	8,7m	13m	17,4m	21,7m	26,1m	34,7m	43,4m
Beam wid.	2,9ft	5,7ft	8,5ft	11,4ft	14,2ft	21,4ft	28,5ft	42,7ft	57ft	71,2ft	85,5ft	114ft	142,5ft

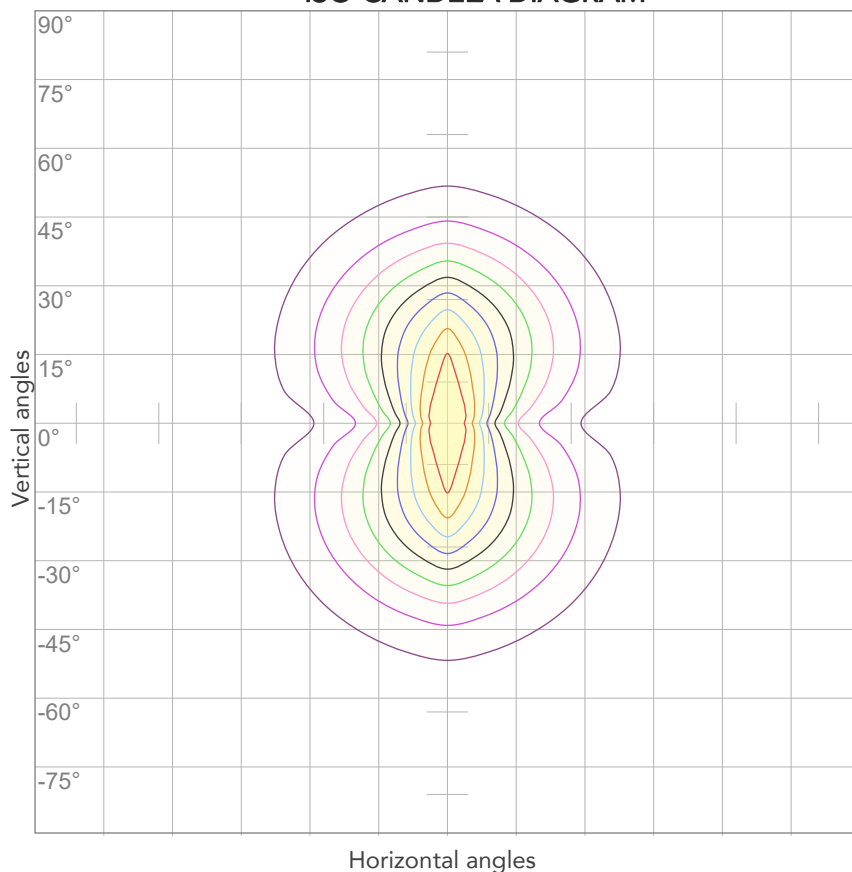
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
222V	0,119A	23,5W	57lm/W

ISO CANDELA DIAGRAM



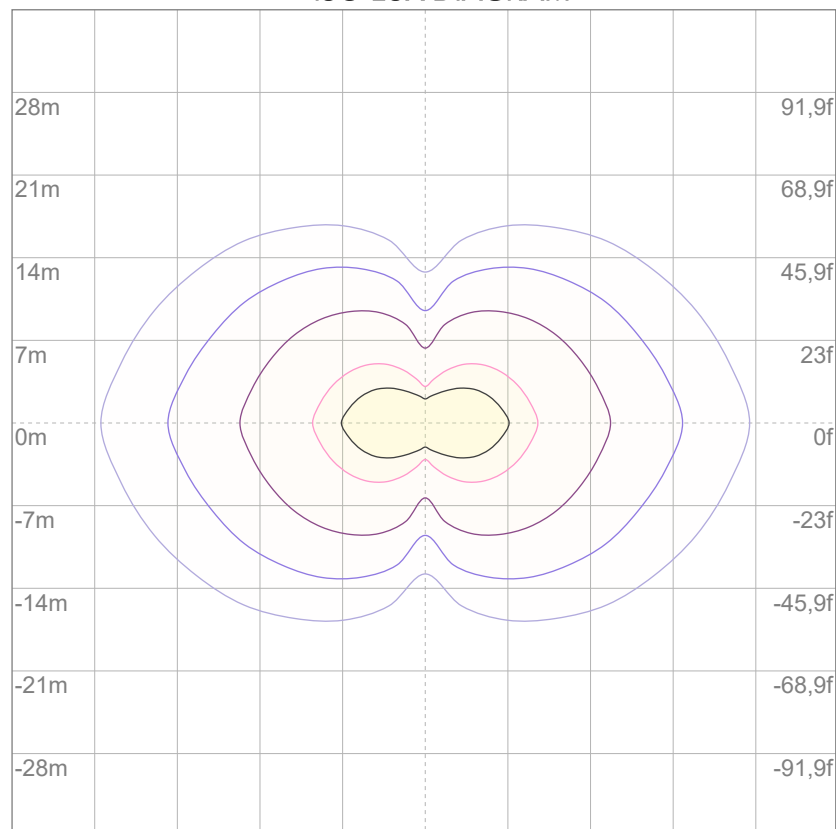
10%	149 cd
20%	299 cd
30%	448 cd
40%	597 cd
50%	747 cd
60%	896 cd
70%	1045 cd
80%	1195 cd

Conditions:

Number of c-planes: 4

Candela at center: 1493 cd

ISO LUX DIAGRAM



3%	0,448 lx
5%	0,747 lx
10%	1,49 lx
30%	4,48 lx
50%	7,47 lx

Conditions:

Number of c-planes: 4

Lux at center: 14,9 lx

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

Total lumen output:

1124 lm

Peak candela output:

982 cd

Light quality:

CRI: 85,6

Color temperature:

4247 K



PRODUCT NAME:

ARCSHINES9VW

MEASURAMENT CONDITIONS:

Beam angle:

15° + Filter 30°x60°

Target:

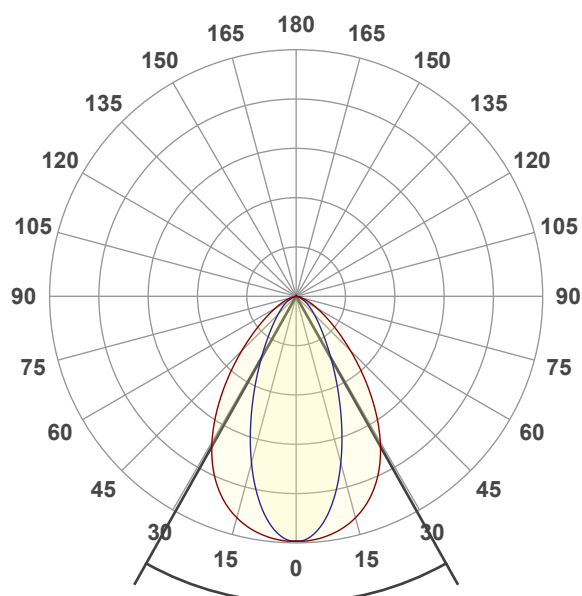
Full on

Operator:

Paolo Carvone

Date and time:

08/09/2022 10:42:46

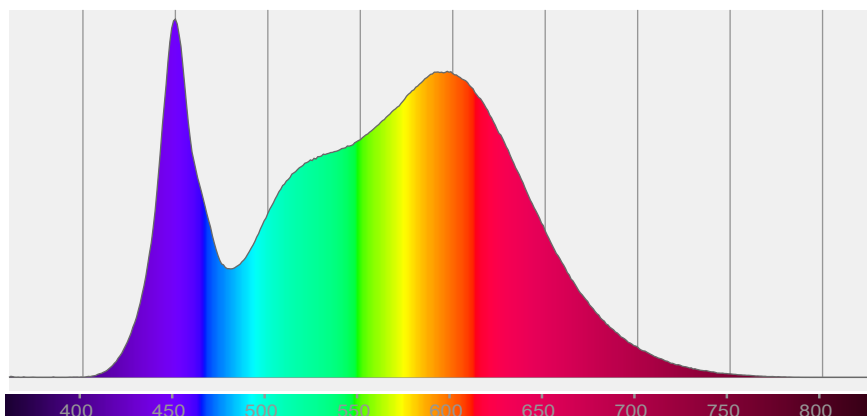


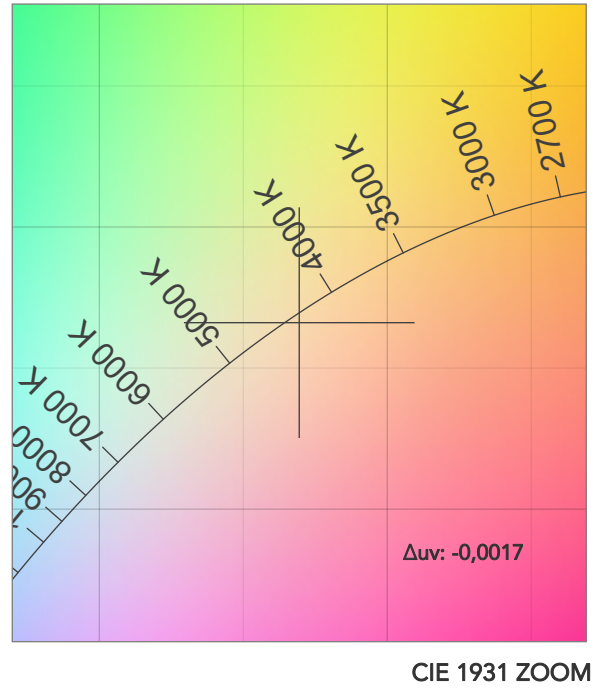
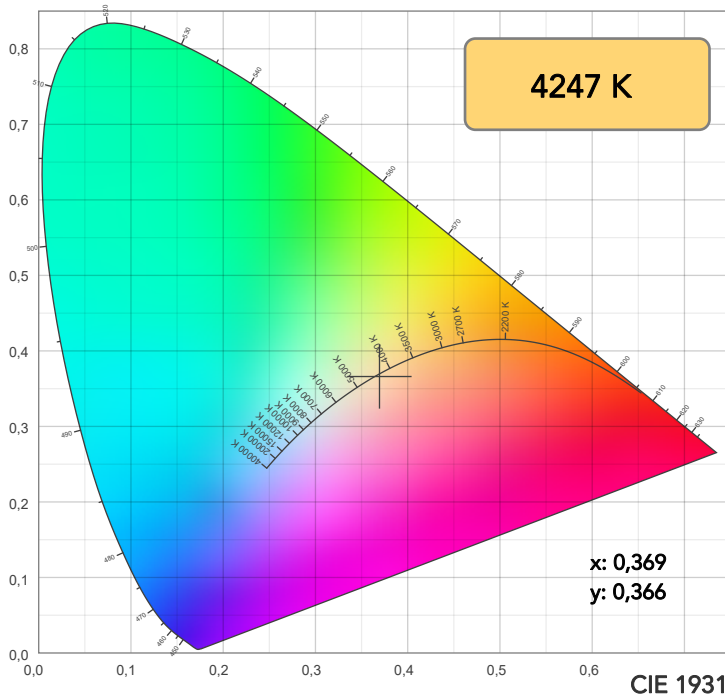
Beam angle 50%: 58,6°

Field angle 10%: 105,9°

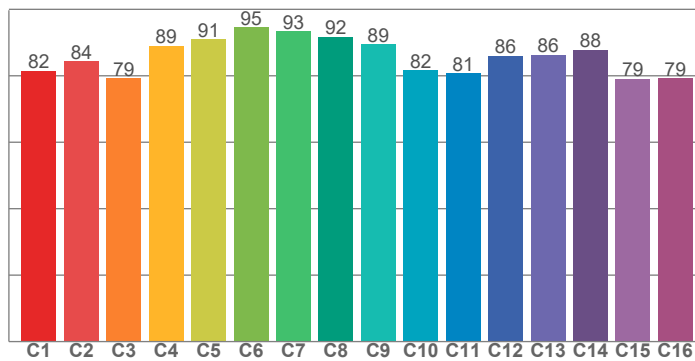
Cut off angle 2.5%: 138,9°

Spectra

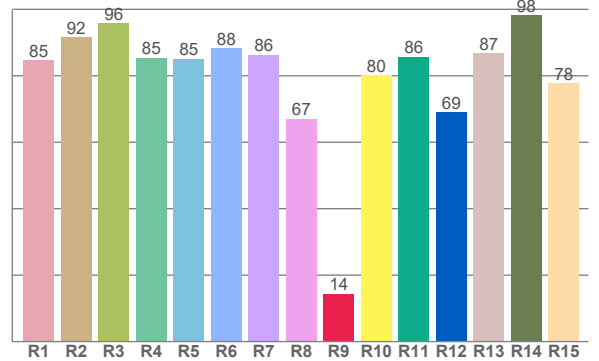




TM30: 85,7



CRI: 85,6 (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
84,6	91,7	95,9	85,4	85,1	88,3	86,3	67,1	14,4	80,1	85,7	69,0	86,7	98,2	77,8

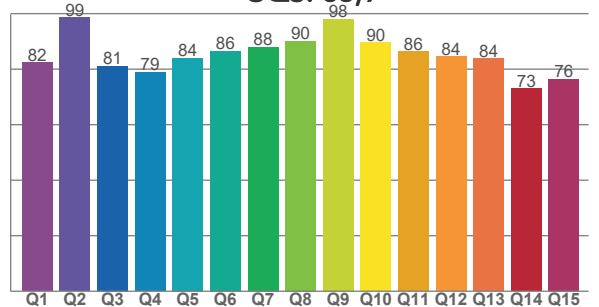
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81,5	84,4	79,2	88,9	90,9	94,6	93,4	91,8	89,5	81,6	80,7	85,9	86,3	87,9	79,0	79,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
82,3	98,6	81,1	78,8	84,1	86,5	87,9	90,2	98,1	89,6	86,3	84,5	83,9	73,1	76,4

CQS: 83,9



COLOR PARAMETERS

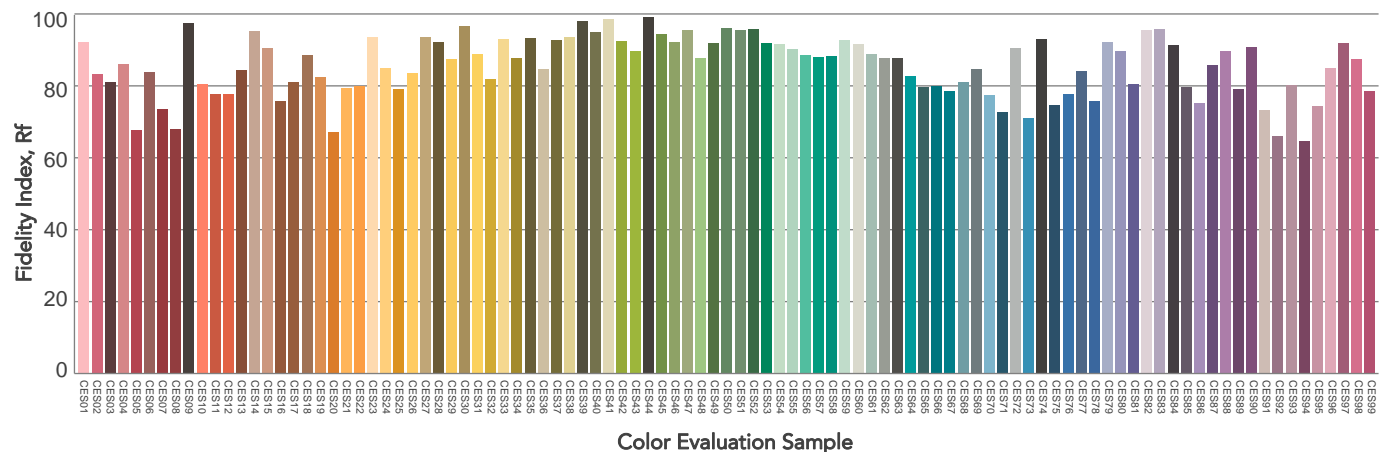
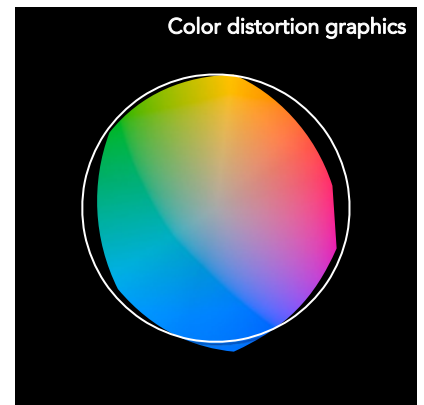
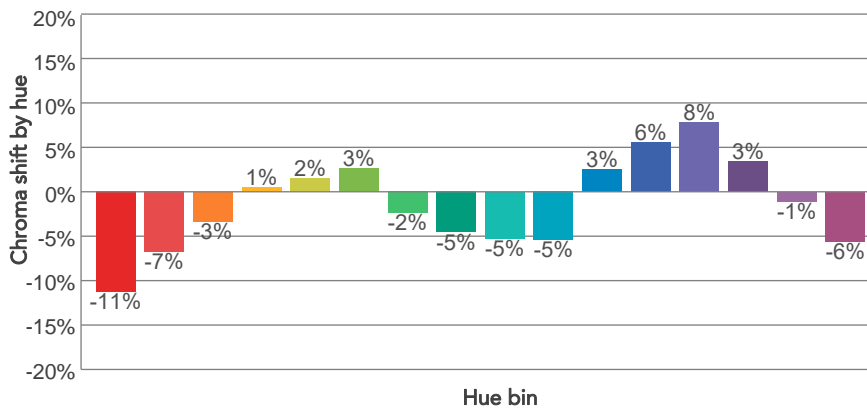
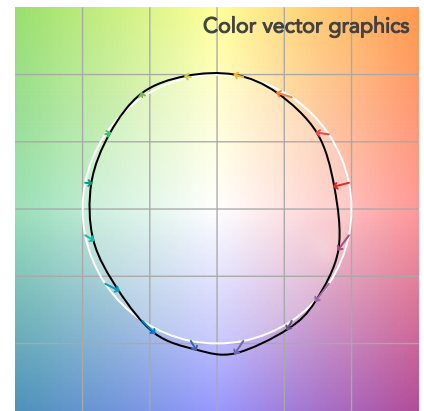
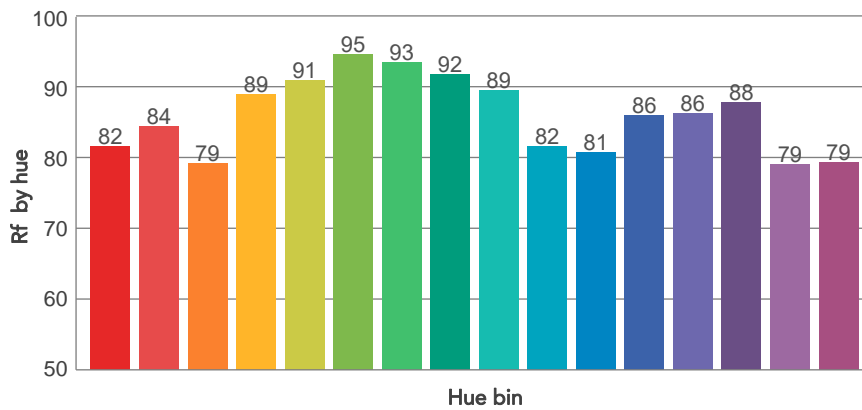
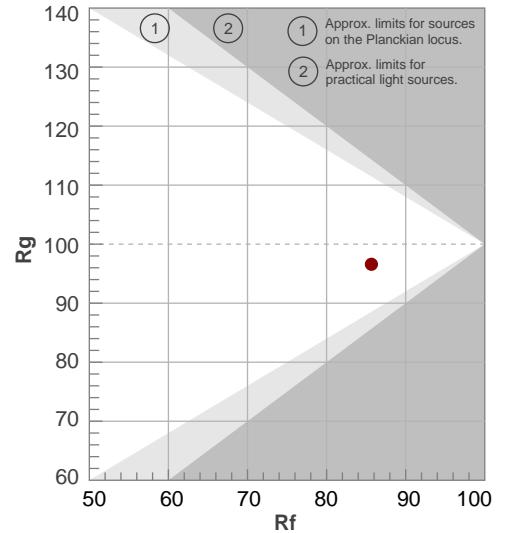
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4247 K	85,6	14,4	85,7	96,6	83,9	70	0,369	0,366	-0,0017

TM30 DETAILS

Rf 85,7
Fidelity index Rf

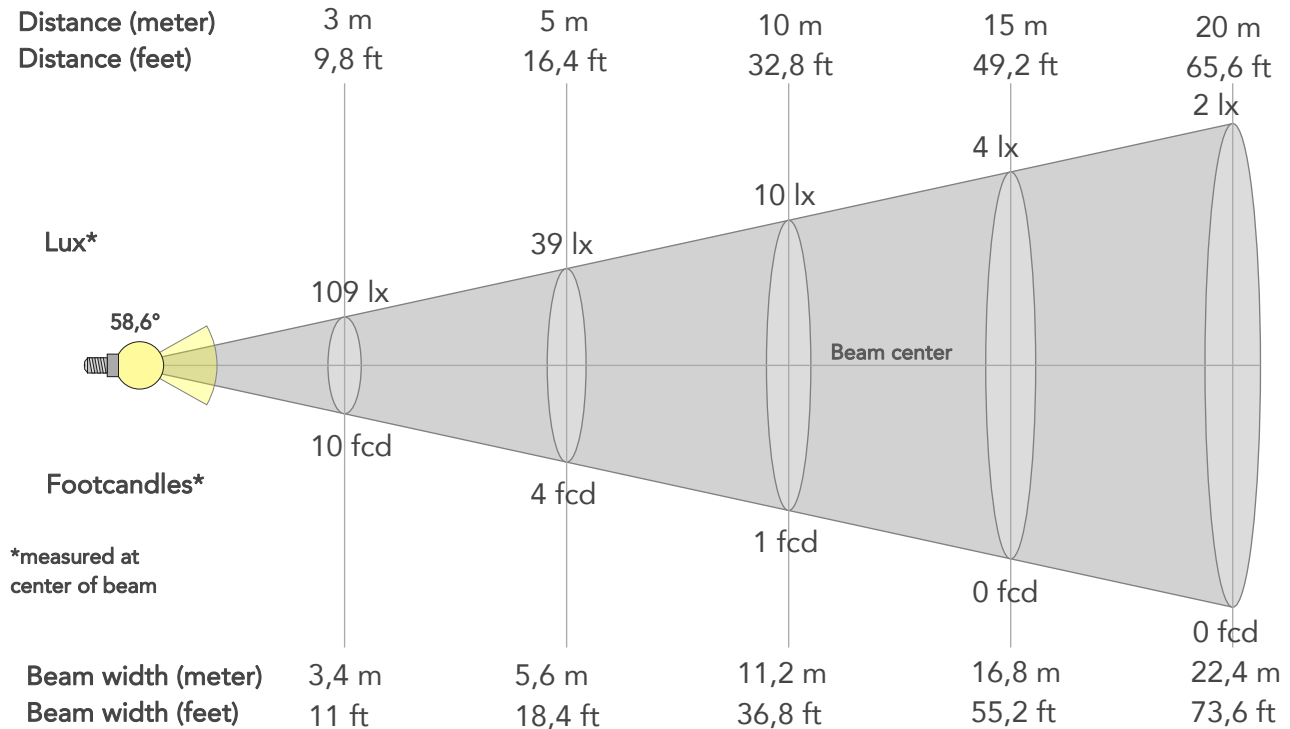
Rg 96,6
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	82	-11%	-1%
2	84	-7%	6%
3	79	-3%	11%
4	89	1%	7%
5	91	2%	4%
6	95	3%	-1%
7	93	-2%	-3%
8	92	-5%	-1%
9	89	-5%	5%
10	82	-5%	10%
11	81	3%	12%
12	86	6%	5%
13	86	8%	-8%
14	88	3%	-6%
15	79	-1%	-16%
16	79	-6%	-12%



BEAM DETAILS

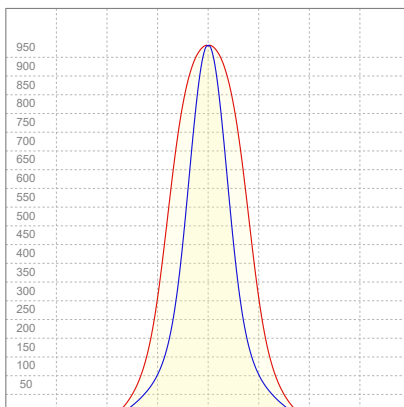
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
58,6°	105,9°	138,9°	94,8%	80,3%



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	981lx	245lx	109lx	61lx	39lx	17lx	10lx	4lx	2lx	2lx	1lx	1lx	0lx
Footcand.	91fcd	23fcd	10fcd	6fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,2m	3,4m	4,5m	5,6m	8,4m	11,2m	16,8m	22,4m	28,1m	33,7m	44,9m	56,1m
Beam wid.	3,7ft	7,4ft	11ft	14,7ft	18,4ft	27,6ft	36,8ft	55,2ft	73,6ft	92ft	110,4ft	147,3ft	184,1ft

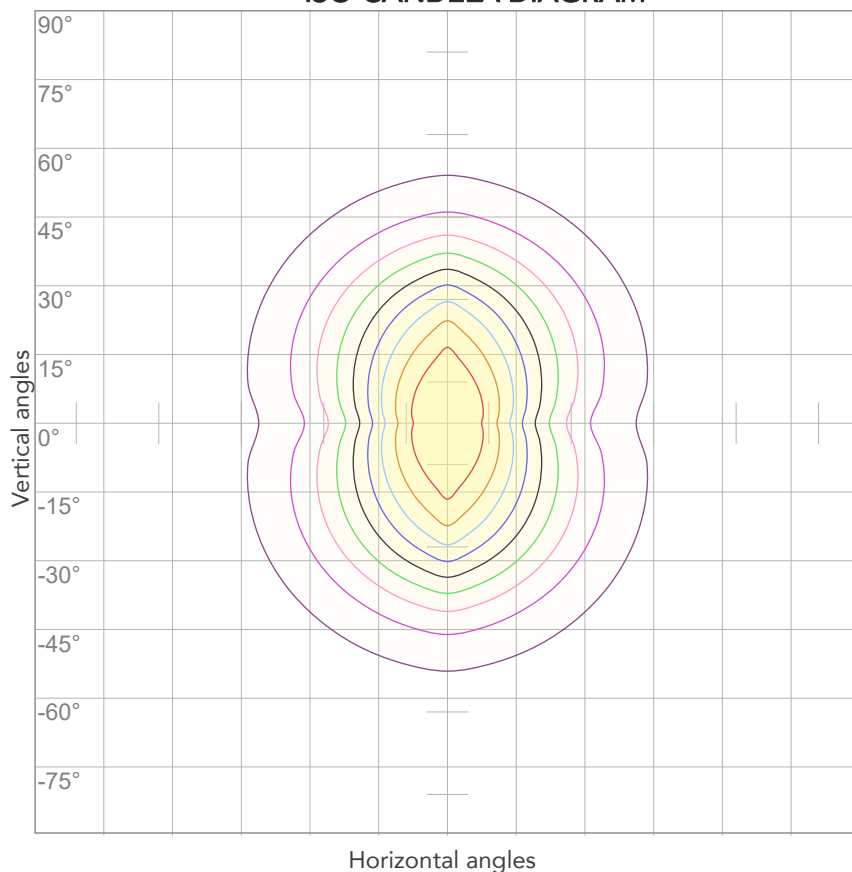
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,120A	23,7W	47lm/W

ISO CANDELA DIAGRAM



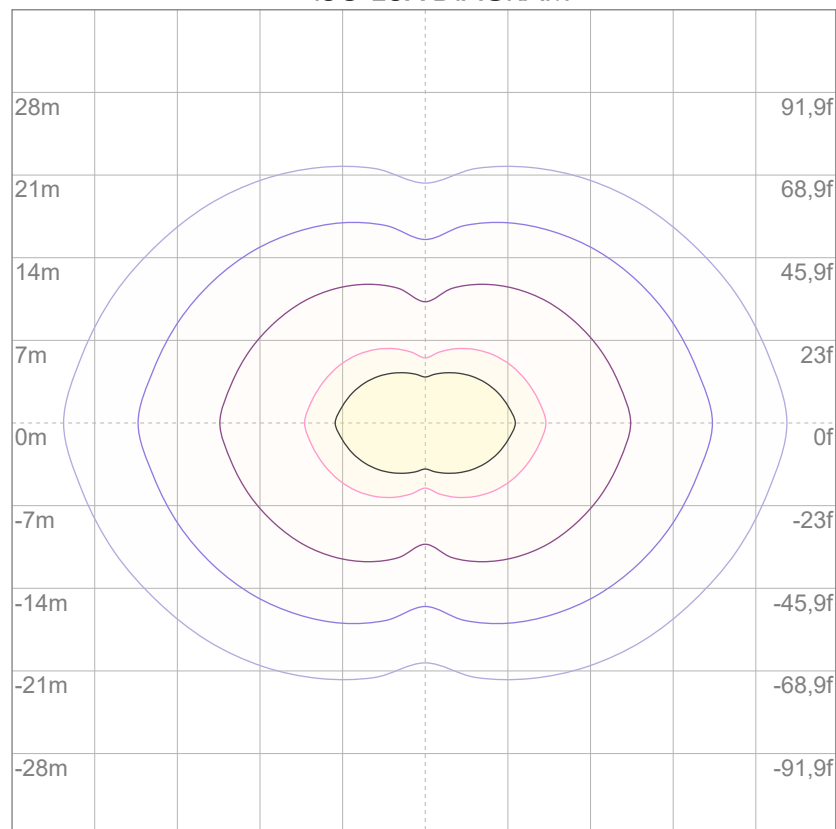
10%	98 cd
20%	196 cd
30%	294 cd
40%	392 cd
50%	490 cd
60%	589 cd
70%	687 cd
80%	785 cd

Conditions:

Number of c-planes: 4

Candela at center: 981 cd

ISO LUX DIAGRAM



3%	0,294 lx
5%	0,490 lx
10%	0,981 lx
30%	2,94 lx
50%	4,90 lx

Conditions:

Number of c-planes: 4

Lux at center: 9,81 lx

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

Total lumen output:

1054 lm

Peak candela output:

5696 cd

Light quality:

CRI: 80,0

Color temperature:

2828 K



PRODUCT NAME:

ARCSHINES9VW

MEASURAMENT CONDITIONS:

Beam angle:

15°

Target:

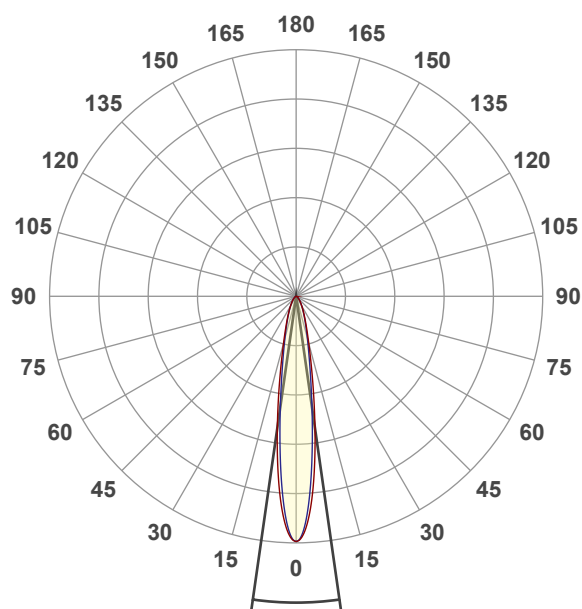
Warm White

Operator:

Paolo Carvone

Date and time:

08/09/2022 10:21:51

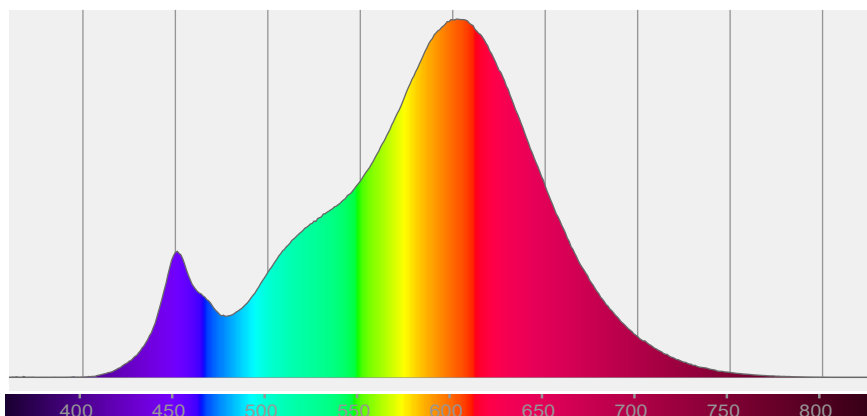


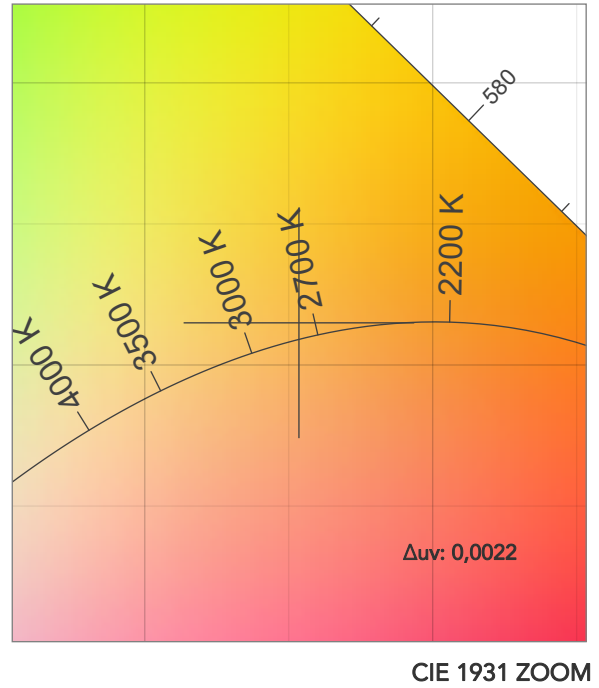
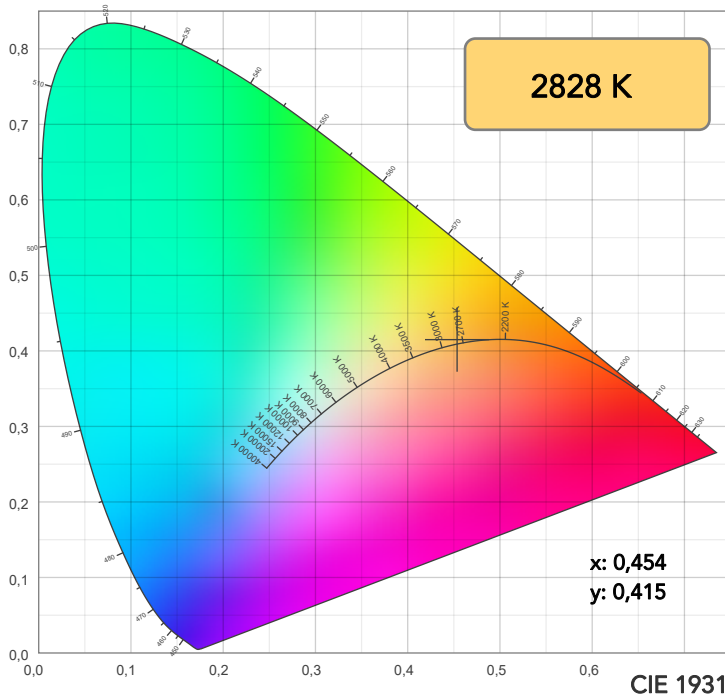
Beam angle 50%: 16,3°

Field angle 10%: 41,8°

Cut off angle 2.5%: 75,6°

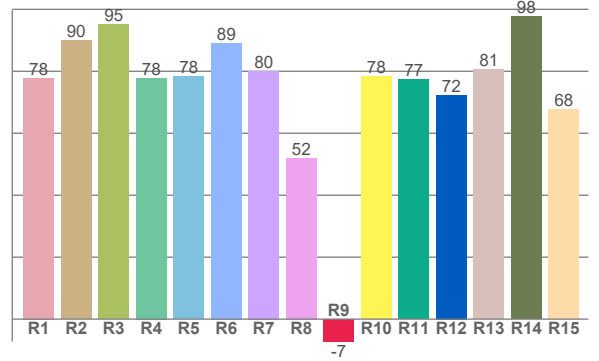
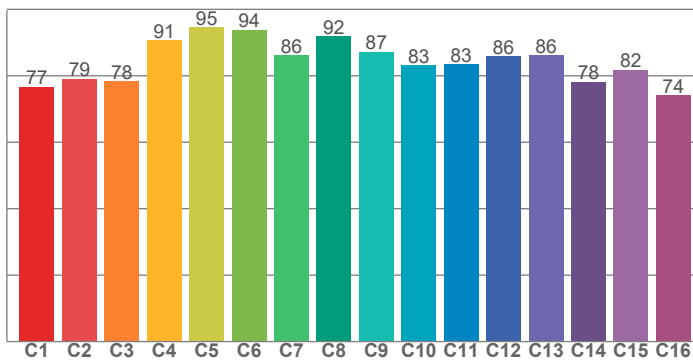
Spectra





TM30: 84,3

CRI: 80,0 (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
77,8	90,0	95,1	77,8	78,3	89,1	80,1	52,0	-7,3	78,4	77,3	72,3	80,7	97,8	67,8

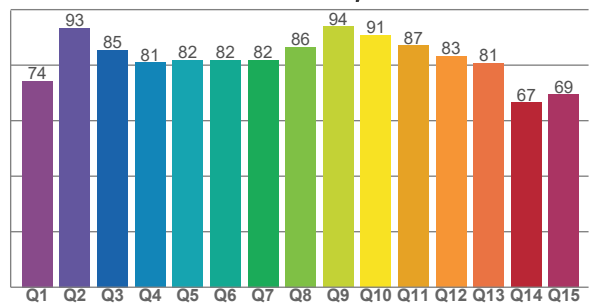
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
76,6	79,1	78,4	90,7	94,5	93,9	86,2	91,8	87,2	83,2	83,4	85,9	86,2	78,1	81,7	74,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,2	93,3	85,4	80,9	81,9	81,9	81,8	86,5	93,9	90,8	87,0	83,3	80,8	66,5	69,4

CQS: 80,8



COLOR PARAMETERS

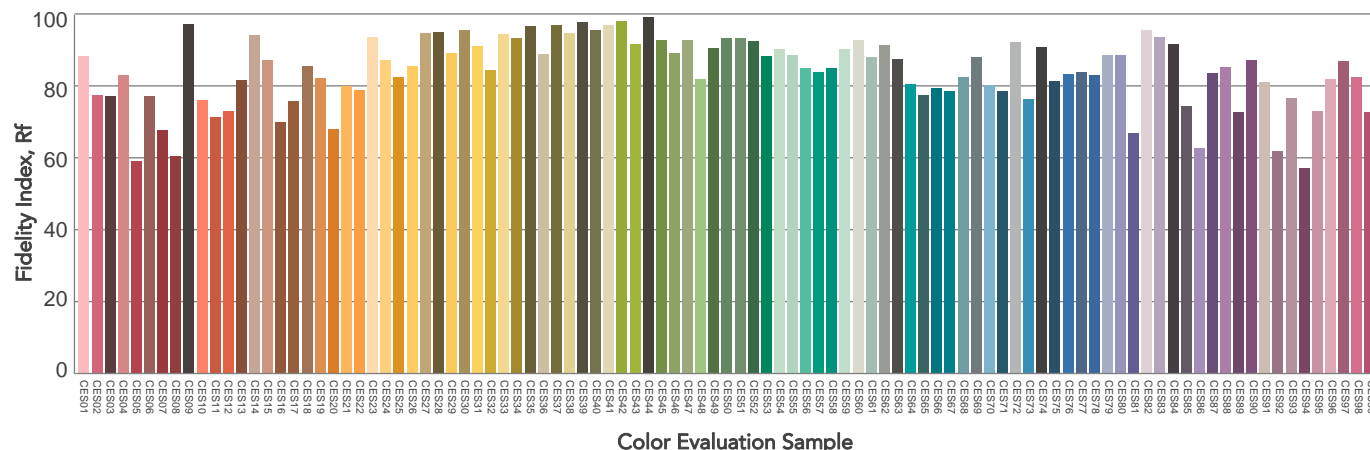
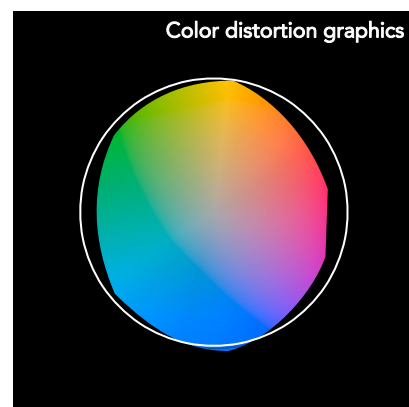
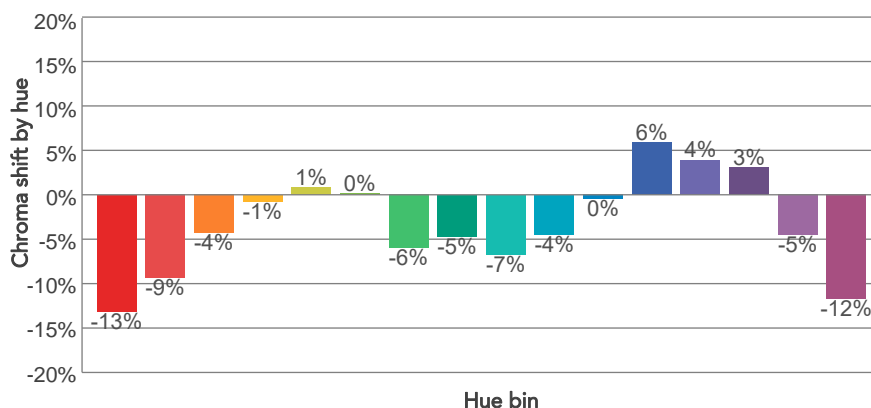
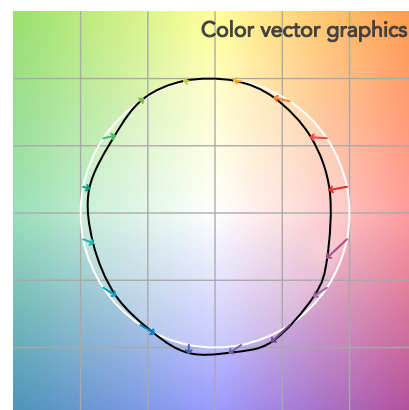
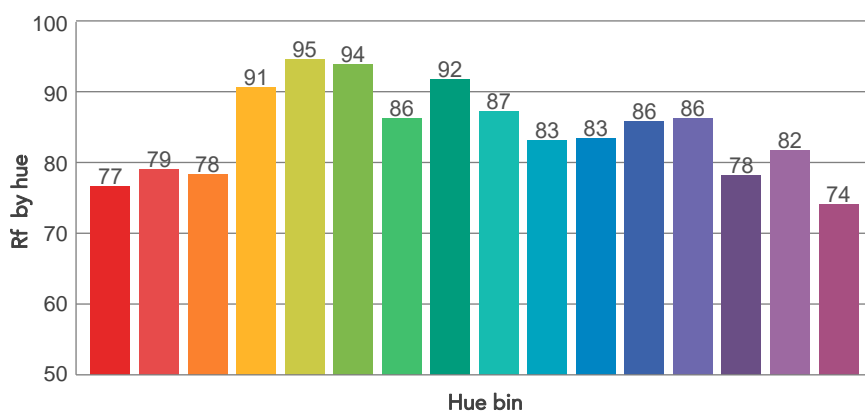
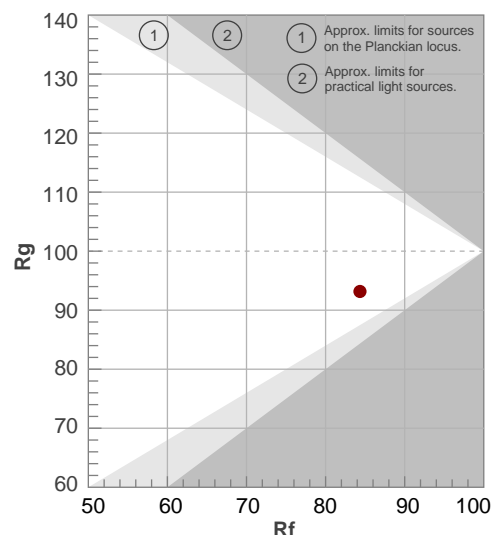
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2828 K	80,0	-7,3	84,3	93,2	80,8	63	0,454	0,415	0,0022

TM30 DETAILS

Rf 84,3
Fidelity index Rf

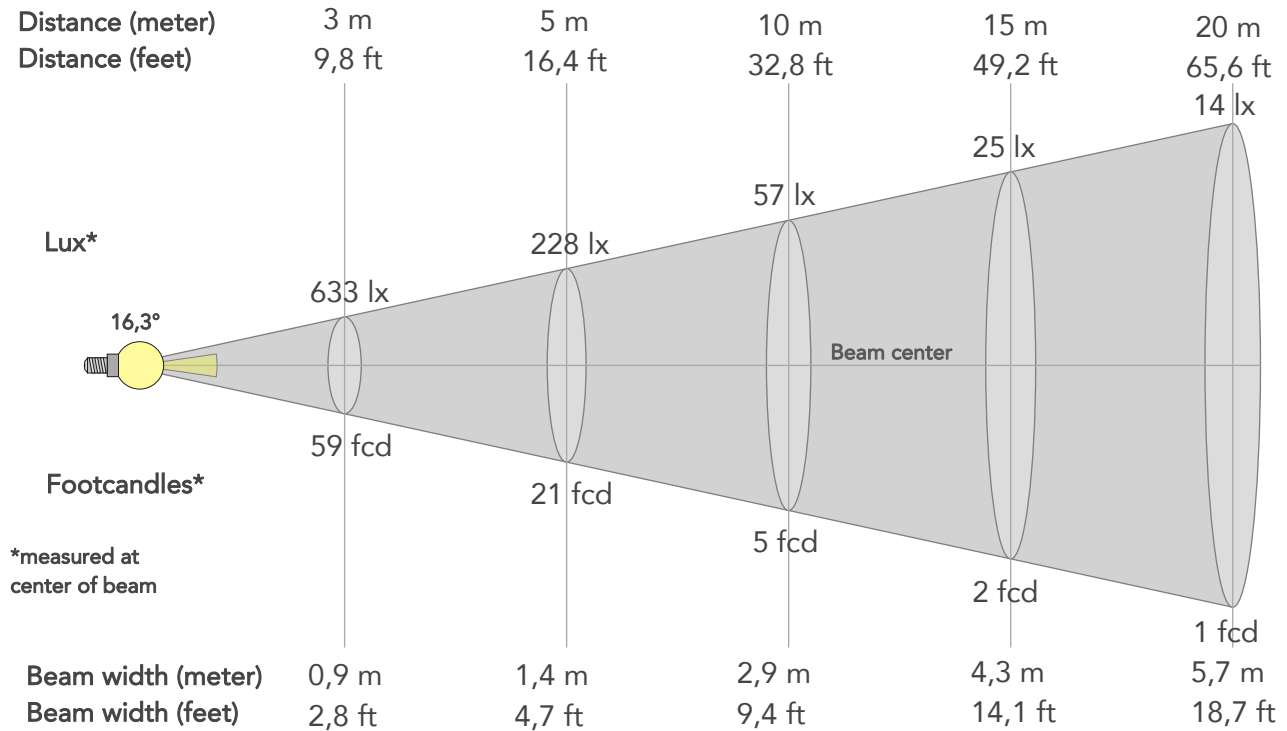
Rg 93,2
Gammut index

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%	4%
10	83	-4%	10%
11	83	0%	12%
12	86	6%	1%
13	86	4%	-10%
14	78	3%	-18%
15	82	-5%	-10%
16	74	-12%	-16%



BEAM DETAILS

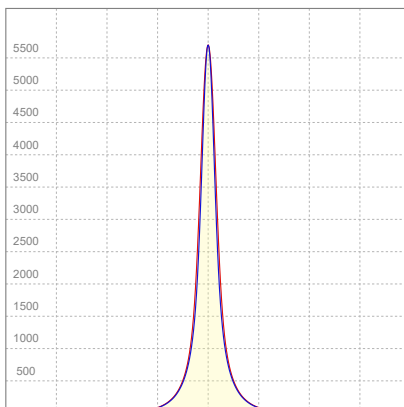
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16,3°	41,8°	75,6°	98,9%	92,9%



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	5694lx	1424lx	633lx	356lx	228lx	101lx	57lx	25lx	14lx	9lx	6lx	4lx	2lx
Footcand.	529fcd	132fcd	59fcd	33fcd	21fcd	9fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,9m	1,1m	1,4m	2,1m	2,9m	4,3m	5,7m	7,1m	8,6m	11,4m	14,3m
Beam wid.	0,9ft	1,9ft	2,8ft	3,7ft	4,7ft	7ft	9,4ft	14,1ft	18,7ft	23,4ft	28,1ft	37,5ft	46,8ft

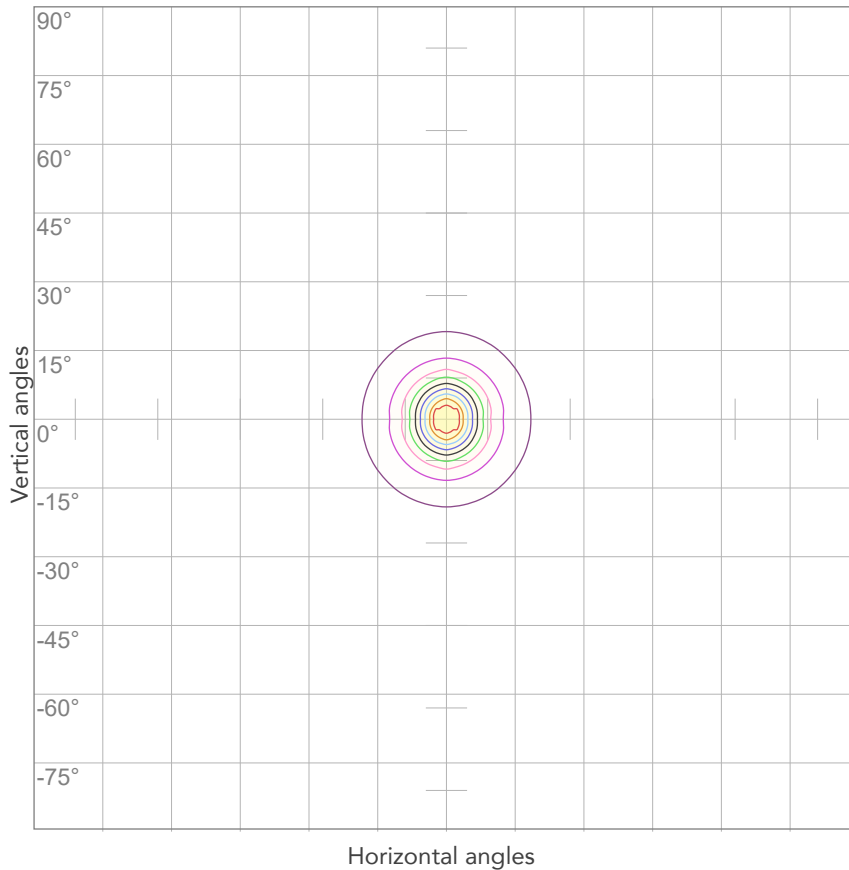
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,118A	23,2W	45lm/W

ISO CANDELA DIAGRAM



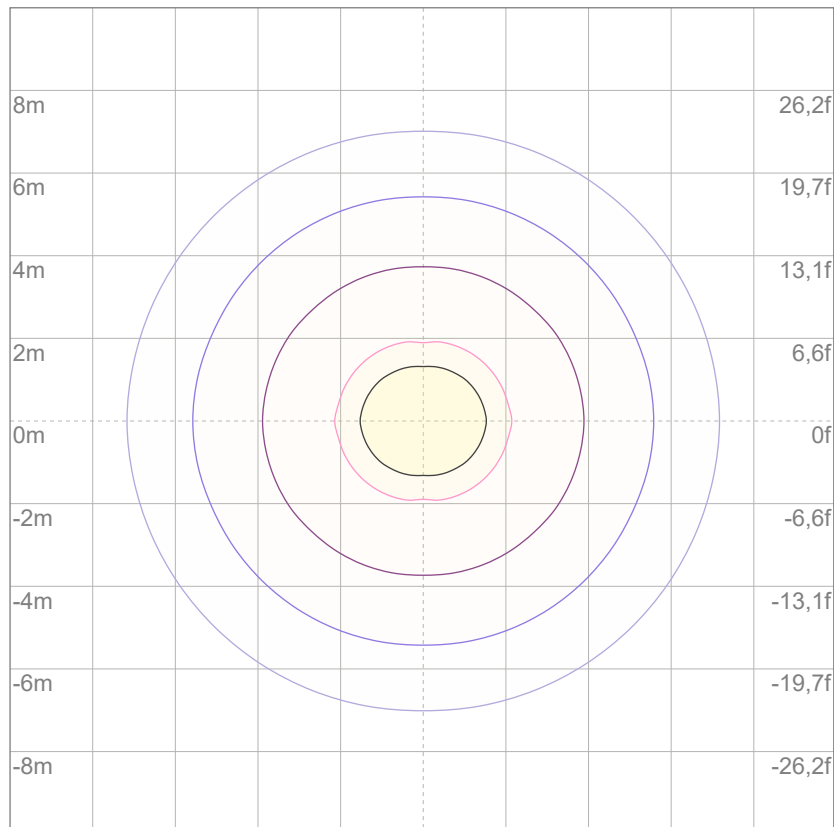
10%	569 cd
20%	1139 cd
30%	1708 cd
40%	2278 cd
50%	2847 cd
60%	3417 cd
70%	3986 cd
80%	4555 cd

Conditions:

Number of c-planes: 4

Candela at center: 5694 cd

ISO LUX DIAGRAM



3%	1,71 lx
5%	2,85 lx
10%	5,69 lx
30%	17,1 lx
50%	28,5 lx

Conditions:

Number of c-planes: 4

Lux at center: 56,9 lx

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

Total lumen output:

984 lm

Peak candela output:

2012 cd

Light quality:

CRI: 80,2

Color temperature:

2833 K



PRODUCT NAME:

ARCSHINES9VW

MEASURAMENT CONDITIONS:

Beam angle:

15° + Filter 20°

Target:

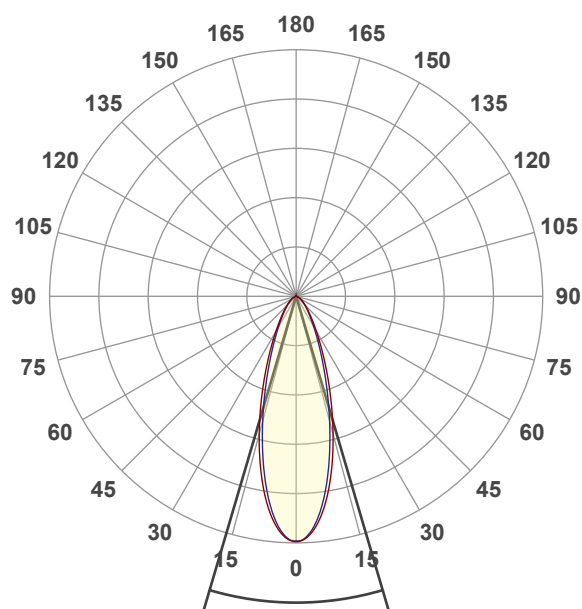
Warm White

Operator:

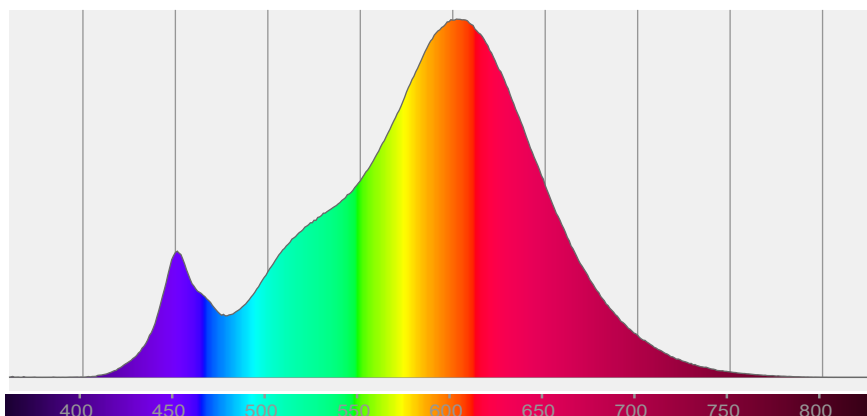
Paolo Carvone

Date and time:

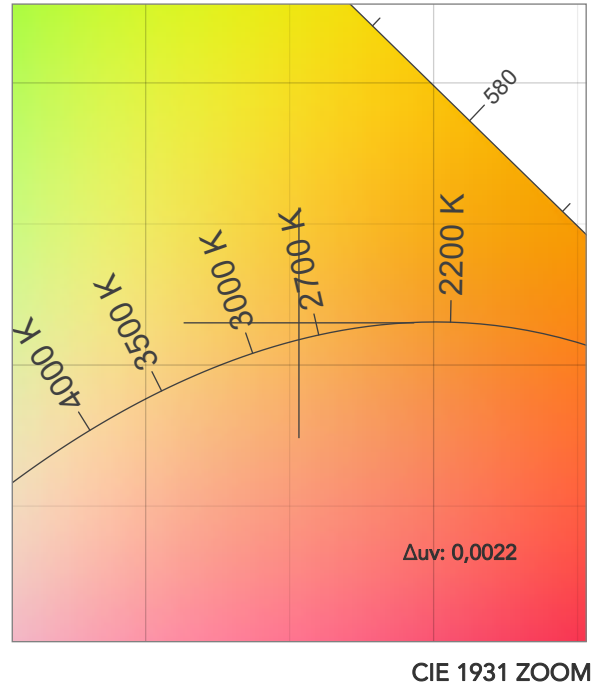
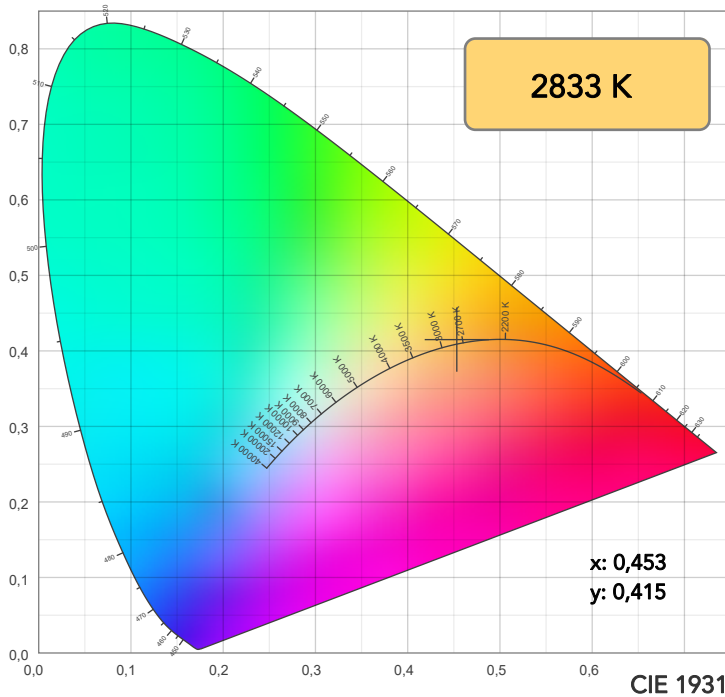
08/09/2022 11:08:19



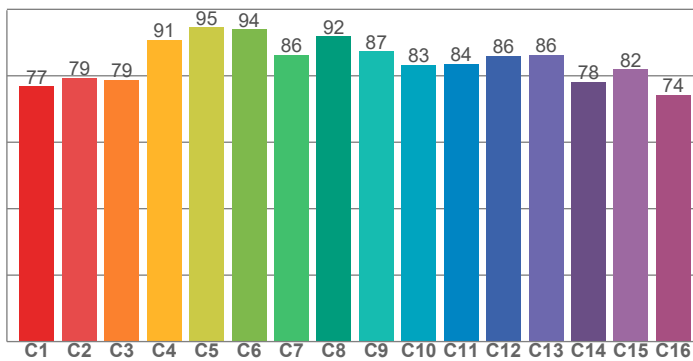
Spectra



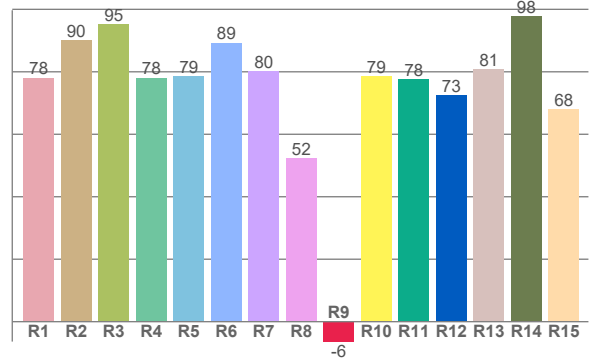
COLOR DETAILS



TM30: 84,5



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
78,1	90,1	95,1	78,1	78,5	89,3	80,3	52,4	-6,4	78,6	77,7	72,5	80,9	97,8	68,1

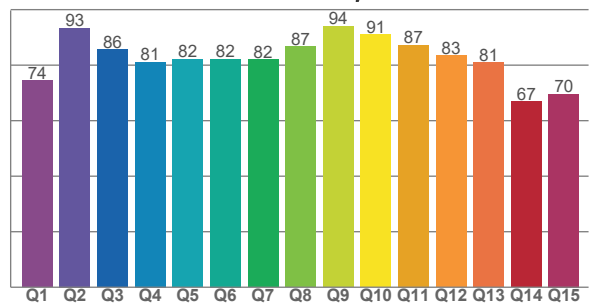
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
76,8	79,3	78,7	90,8	94,6	94,0	86,4	91,9	87,3	83,3	83,6	86,0	86,2	78,2	81,9	74,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,5	93,4	85,6	81,1	82,1	82,1	82,0	86,7	94,0	91,0	87,2	83,5	81,0	66,8	69,6

CQS: 81,0



COLOR PARAMETERS

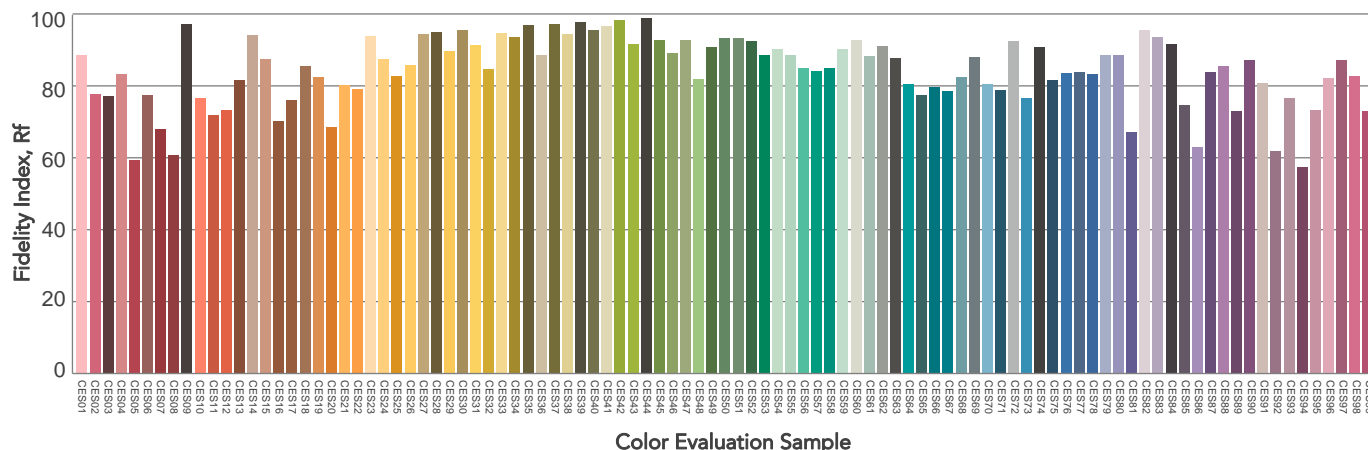
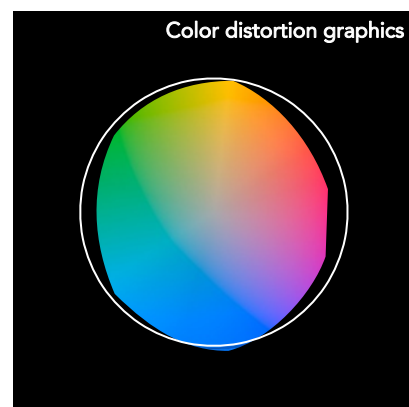
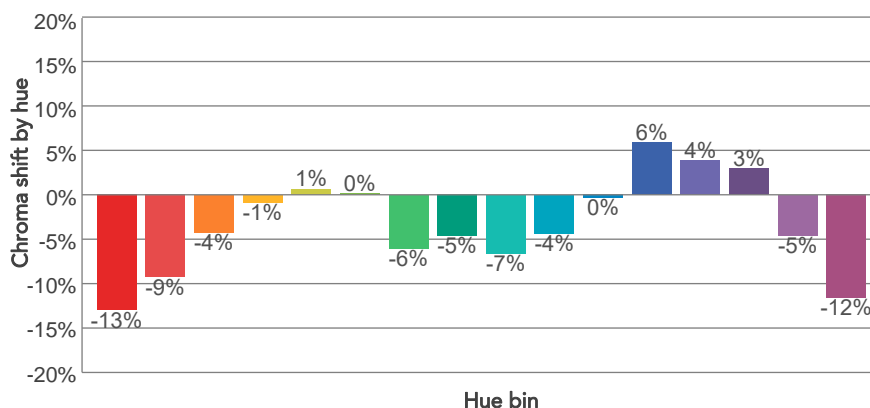
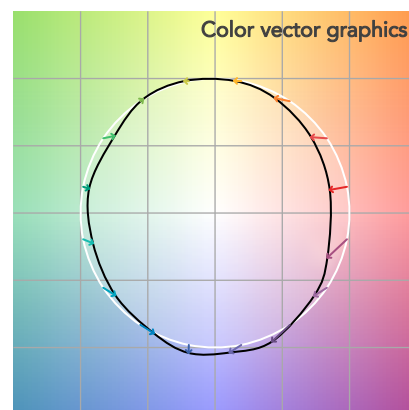
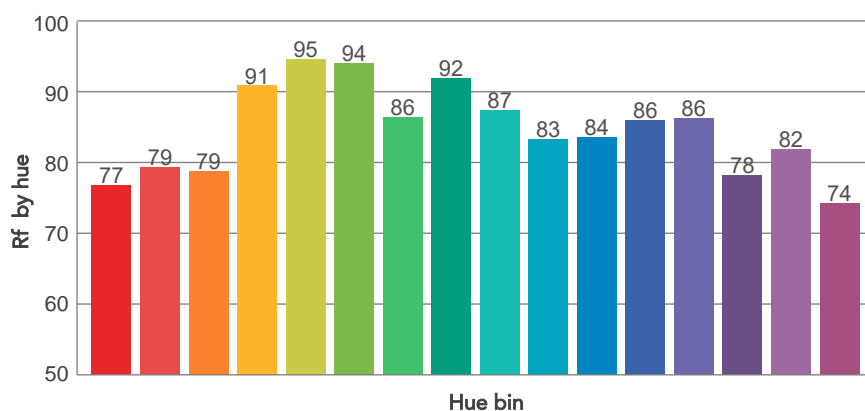
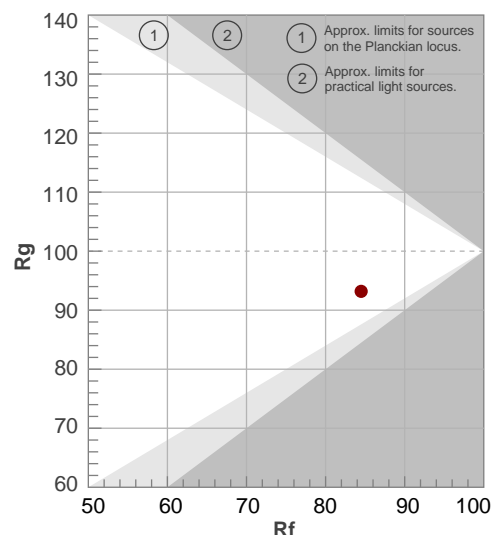
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2833 K	80,2	-6,4	84,5	93,2	81,0	64	0,453	0,415	0,0022

TM30 DETAILS

Rf 84,5
Fidelity index Rf

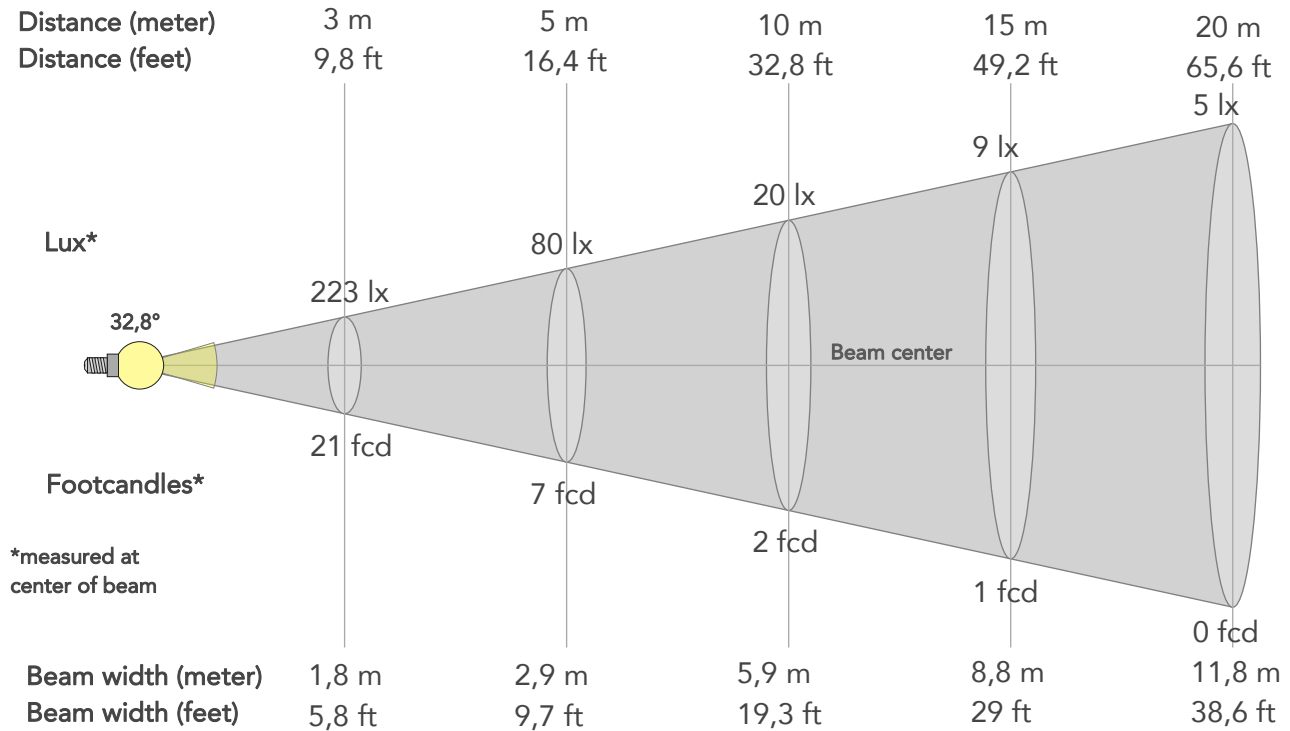
Rg 93,2
Gammut index

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%	0%
9	87	-7%	4%
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

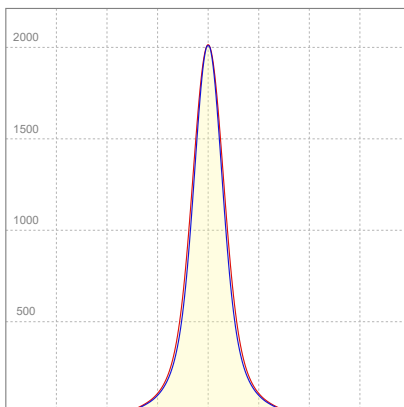
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32,8°	70,9°	111°	97,4%	89,1%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	2009lx	502lx	223lx	126lx	80lx	36lx	20lx	9lx	5lx	3lx	2lx	1lx	1lx
Footcand.	187fcd	47fcd	21fcd	12fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,2m	1,8m	2,4m	2,9m	4,4m	5,9m	8,8m	11,8m	14,7m	17,7m	23,6m	29,4m
Beam wid.	1,9ft	3,9ft	5,8ft	7,7ft	9,7ft	14,5ft	19,3ft	29ft	38,6ft	48,3ft	58ft	77,3ft	96,6ft

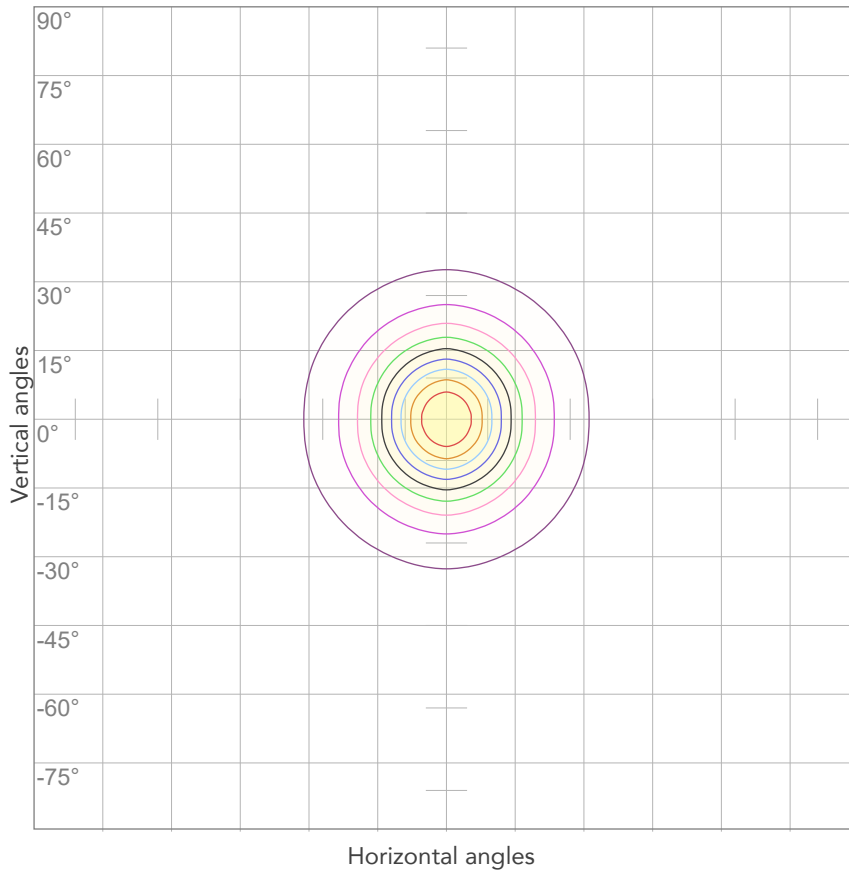
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,118A	23,2W	42lm/W

ISO CANDELA DIAGRAM



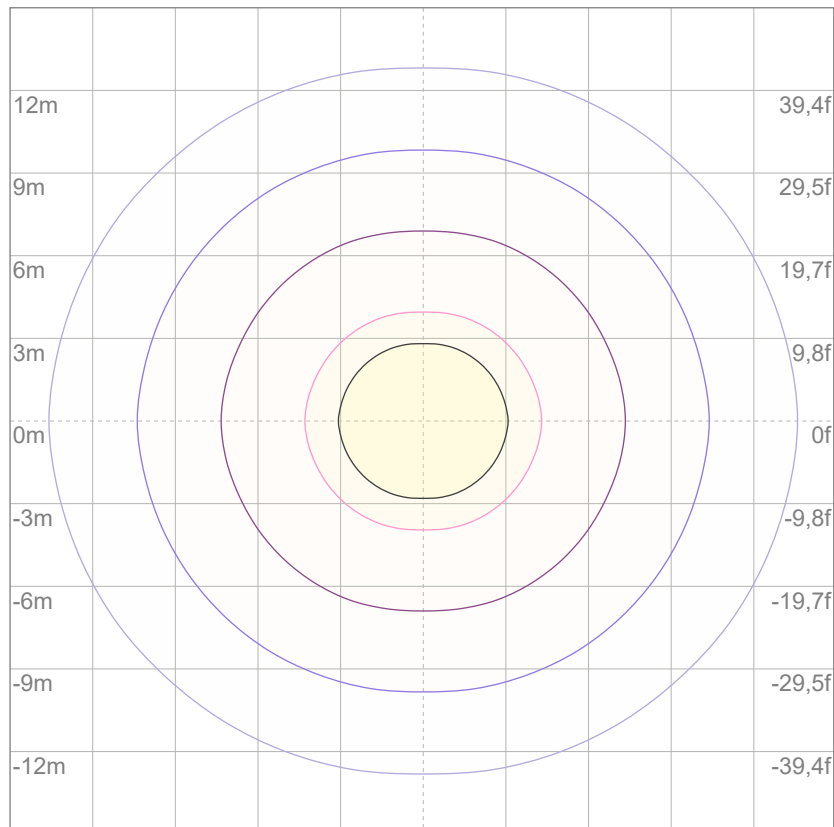
10%	201 cd
20%	402 cd
30%	603 cd
40%	803 cd
50%	1004 cd
60%	1205 cd
70%	1406 cd
80%	1607 cd

Conditions:

Number of c-planes: 4

Candela at center: 2009 cd

ISO LUX DIAGRAM



3%	0,603 lx
5%	1,00 lx
10%	2,01 lx
30%	6,03 lx
50%	10,0 lx

Conditions:

Number of c-planes: 4

Lux at center: 20,1 lx

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

Total lumen output:

944 lm

Peak candela output:

683 cd

Light quality:

CRI: 80,4

Color temperature:

2849 K



PRODUCT NAME:

ARCSHINES9VW

MEASURAMENT CONDITIONS:

Beam angle:

15° + Filter 60°

Target:

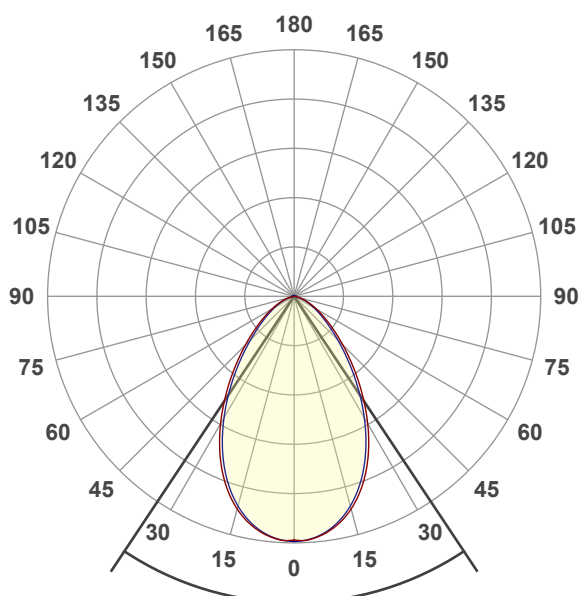
Warm White

Operator:

Paolo Carvone

Date and time:

08/09/2022 11:37:56

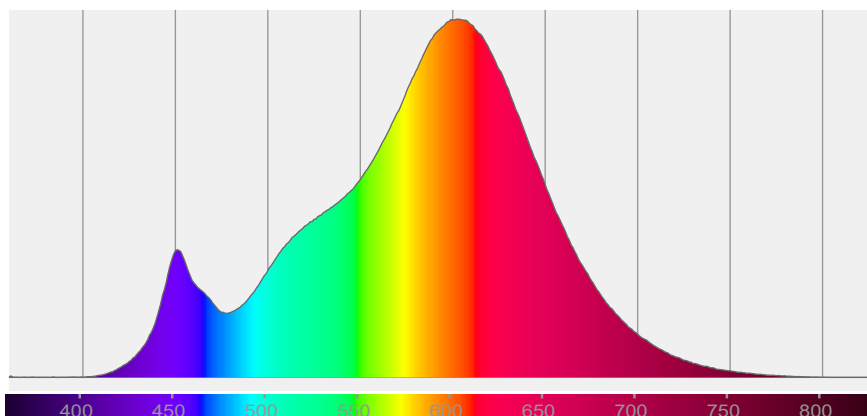


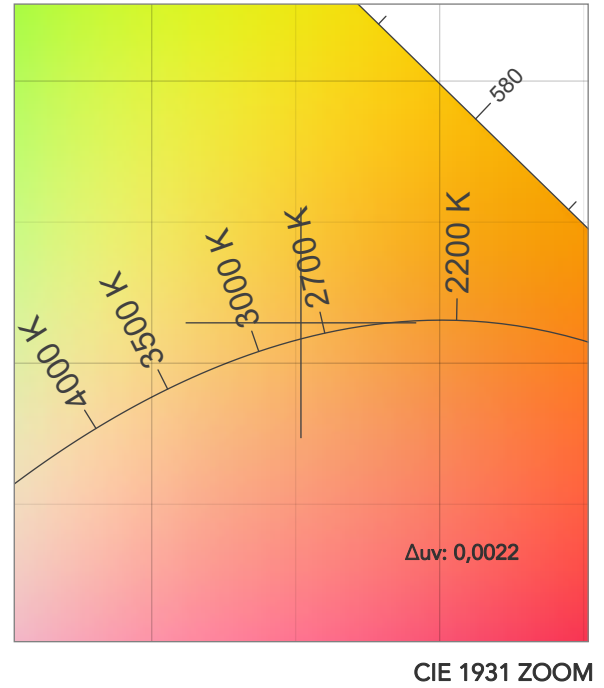
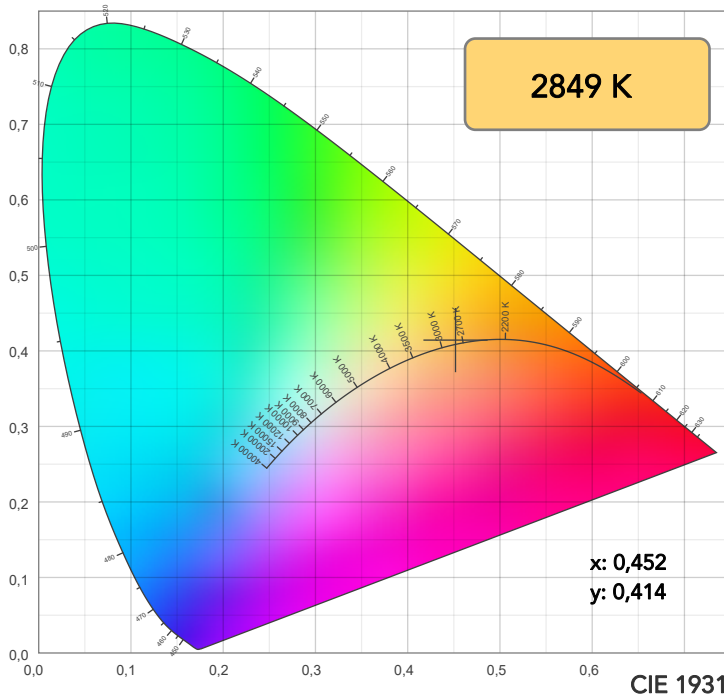
Beam angle 50%: 67,3°

Field angle 10%: 119,9°

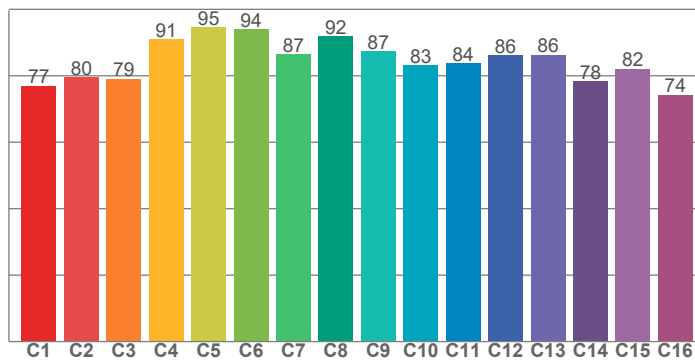
Cut off angle 2.5%: 147,4°

Spectra

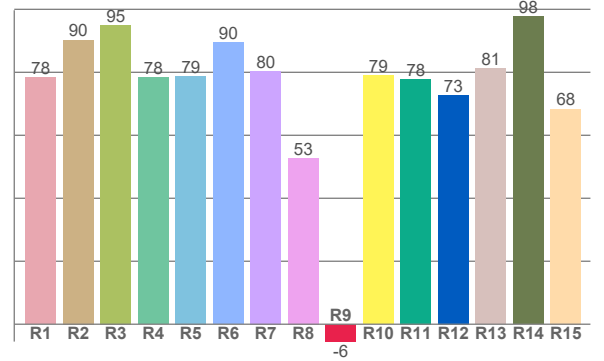




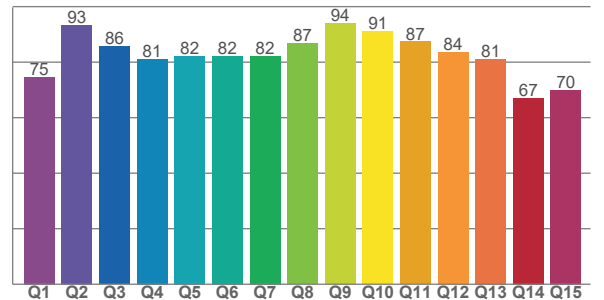
TM30: 84,6



CRI: 80,4 (R1-R8)



CQS: 81,1



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
78,4	90,3	95,1	78,3	78,8	89,5	80,4	52,8	-5,5	79,0	77,9	72,8	81,2	97,8	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
77,0	79,5	79,0	91,0	94,6	94,0	86,5	91,9	87,3	83,2	83,7	86,1	86,3	78,3	82,1	74,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,7	93,4	85,7	81,2	82,2	82,3	82,2	86,8	94,0	91,1	87,3	83,6	81,1	67,1	69,9

COLOR PARAMETERS

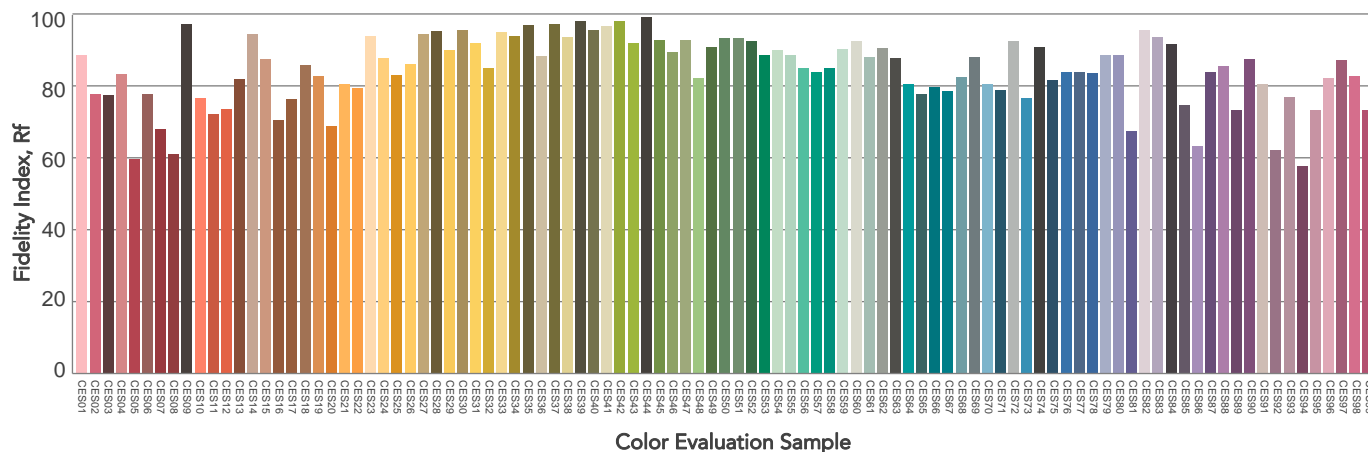
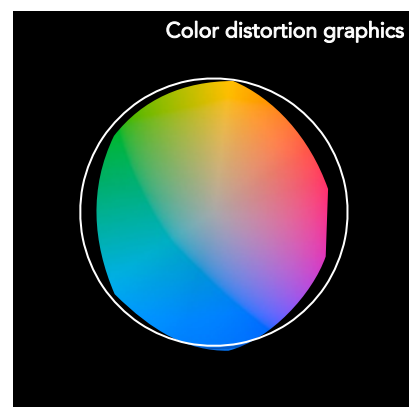
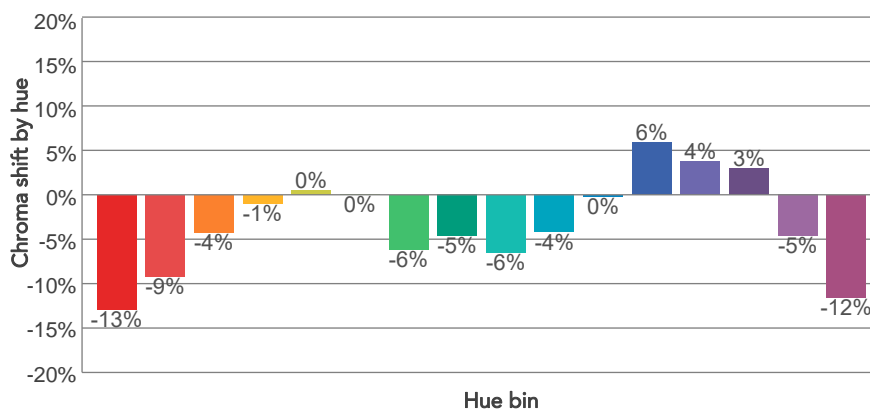
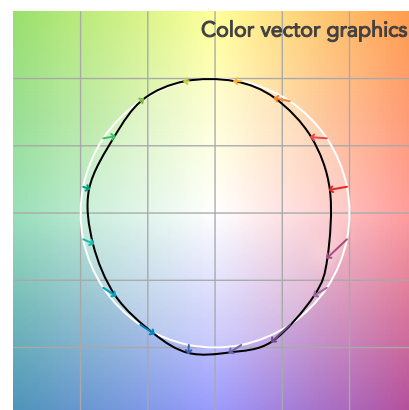
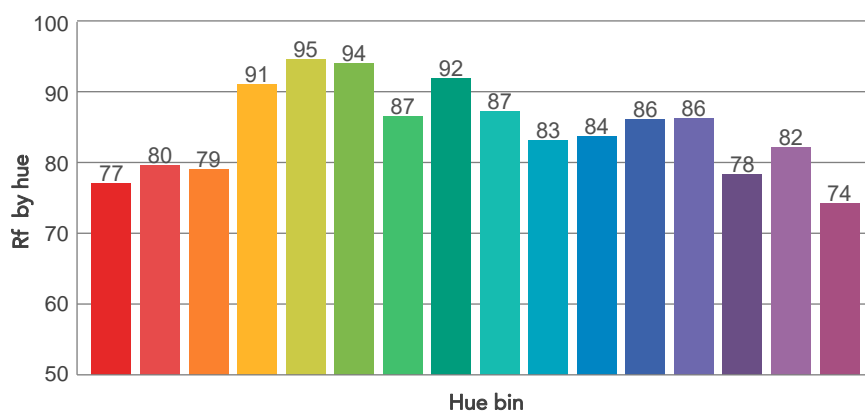
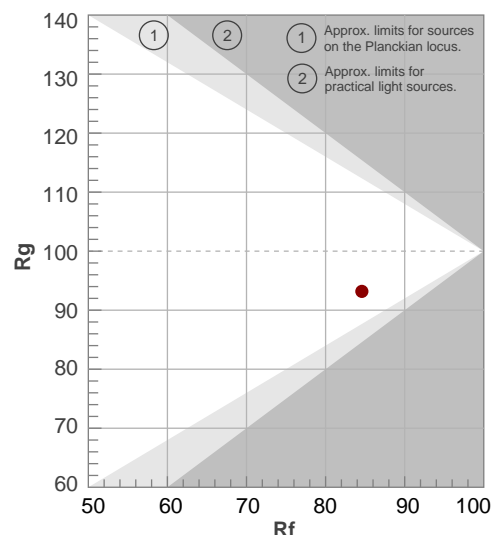
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2849 K	80,4	-5,5	84,6	93,2	81,1	64	0,452	0,414	0,0022

TM30 DETAILS

Rf 84,6
Fidelity index Rf

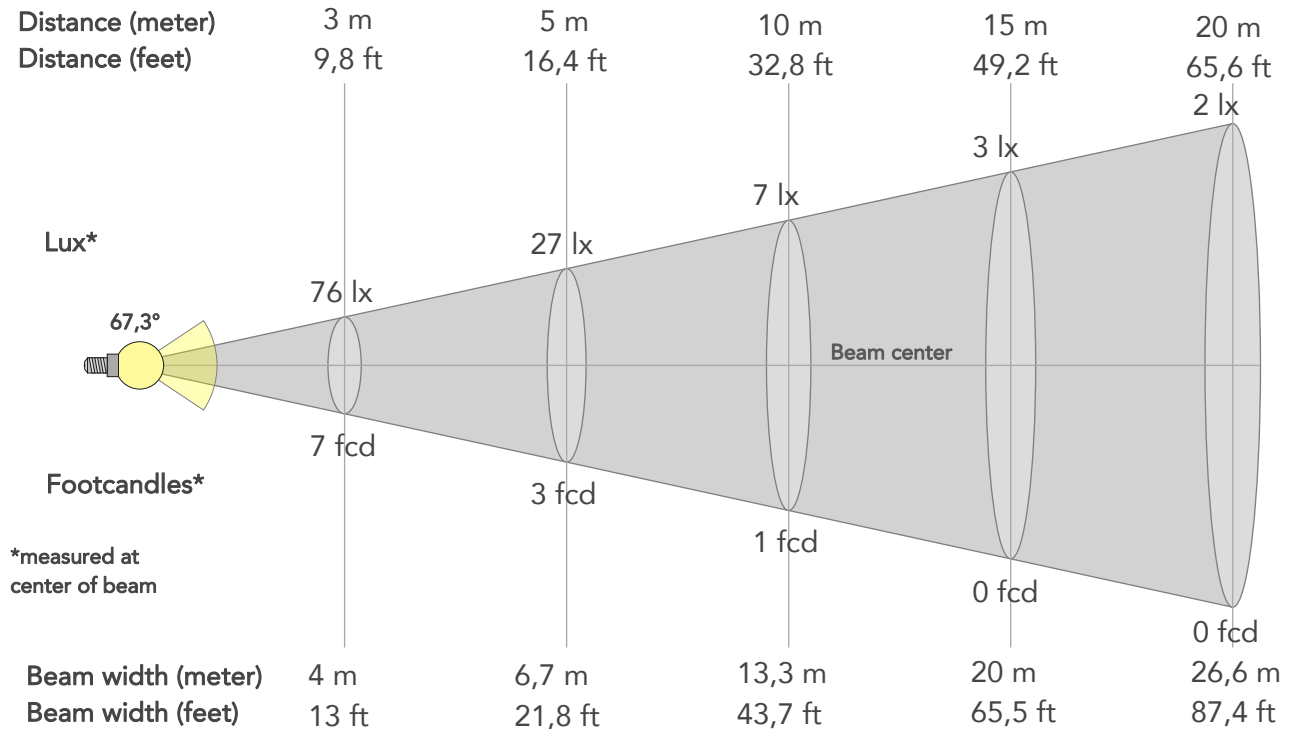
Rg 93,2
Gammut index

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	0%	3%
6	94	0%	-2%
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

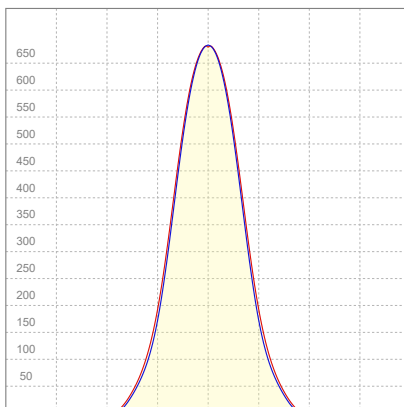
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
67,3°	119,9°	147,4°	93,4%	77,5%



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	682lx	170lx	76lx	43lx	27lx	12lx	7lx	3lx	2lx	1lx	1lx	0lx	0lx
Footcand.	63fcd	16fcd	7fcd	4fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,3m	2,7m	4m	5,3m	6,7m	10m	13,3m	20m	26,6m	33,3m	39,9m	53,3m	66,6m
Beam wid.	4,4ft	8,8ft	13ft	17,4ft	21,8ft	32,8ft	43,7ft	65,5ft	87,4ft	109,2ft	131ft	174,7ft	218,4ft

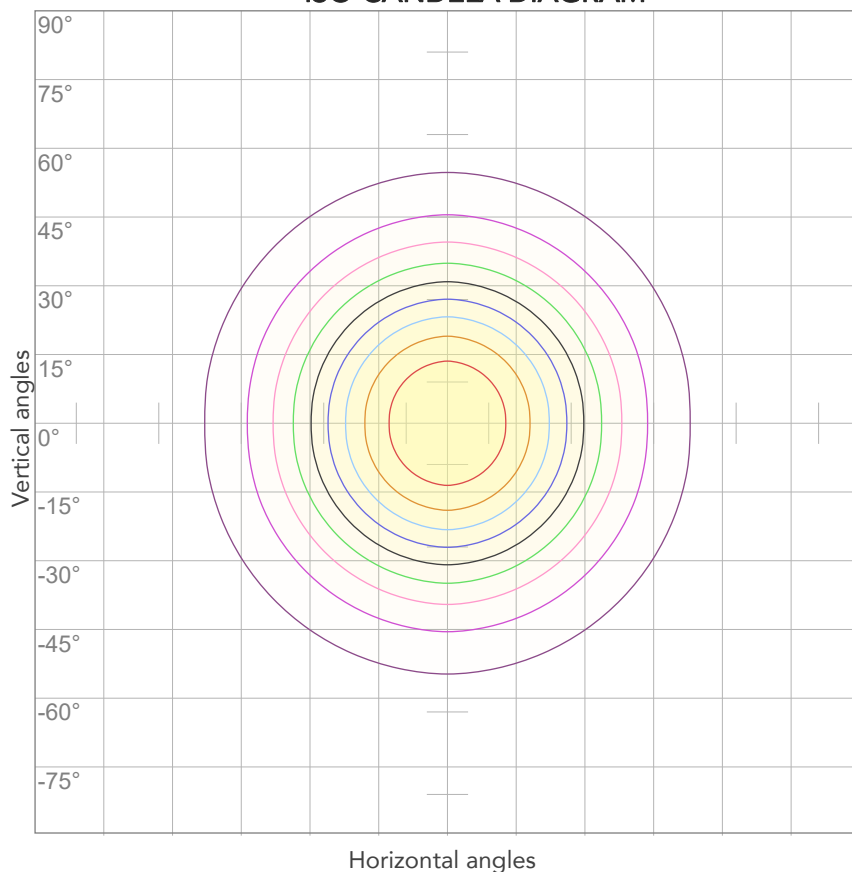
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,117A	23,0W	41lm/W

ISO CANDELA DIAGRAM



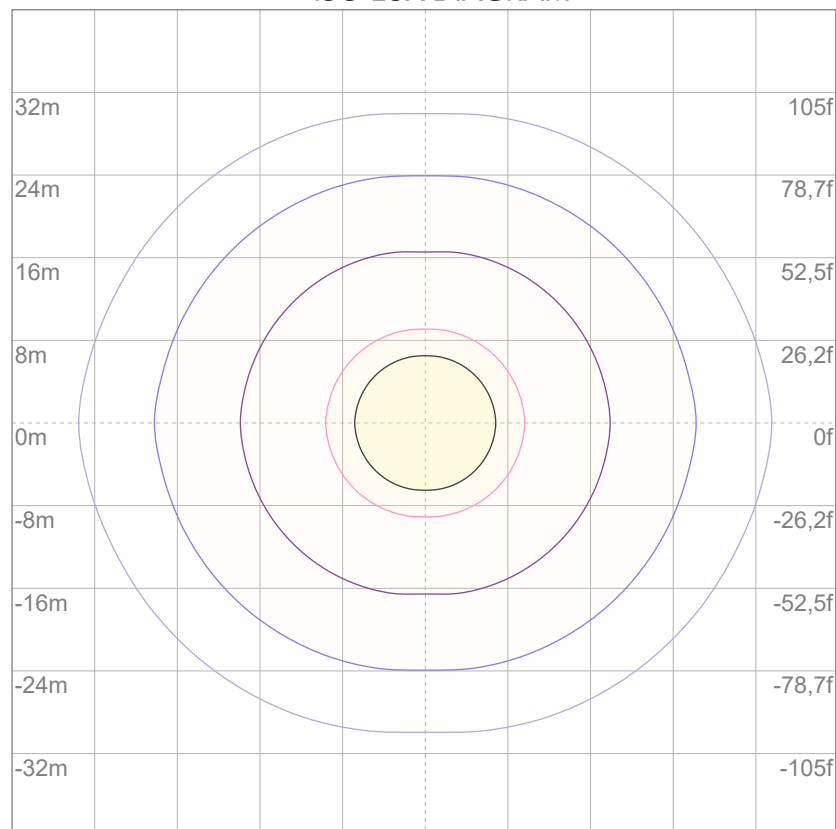
10%	68 cd
20%	136 cd
30%	204 cd
40%	273 cd
50%	341 cd
60%	409 cd
70%	477 cd
80%	545 cd

Conditions:

Number of c-planes: 4

Candela at center: 682 cd

ISO LUX DIAGRAM



3%	0,204 lx
5%	0,341 lx
10%	0,682 lx
30%	2,04 lx
50%	3,41 lx

Conditions:

Number of c-planes: 4

Lux at center: 6,82 lx

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

Total lumen output:

1189 lm

Peak candela output:

1354 cd

Light quality:

CRI: 80,2

Color temperature:

2839 K



PRODUCT NAME:

ARCSHINES9VW

MEASURAMENT CONDITIONS:

Beam angle:

15° + Filter 10°x60°

Target:

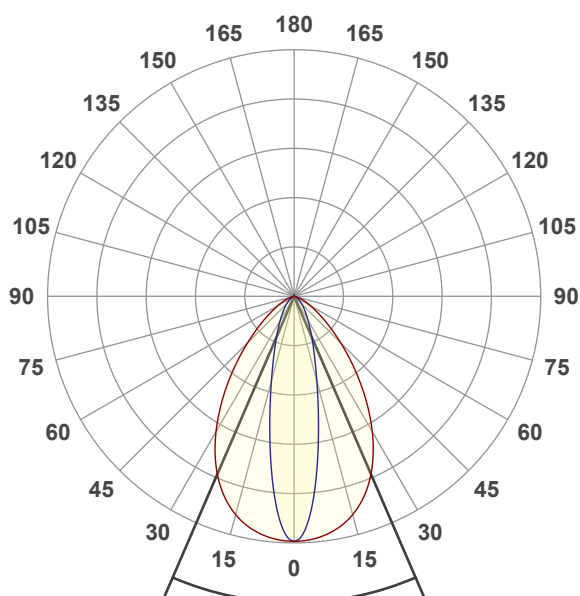
Warm White

Operator:

Paolo Carvone

Date and time:

08/09/2022 11:54:37

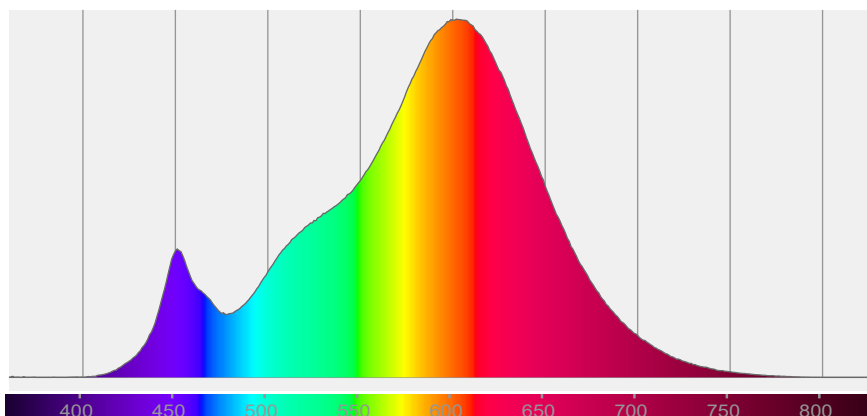


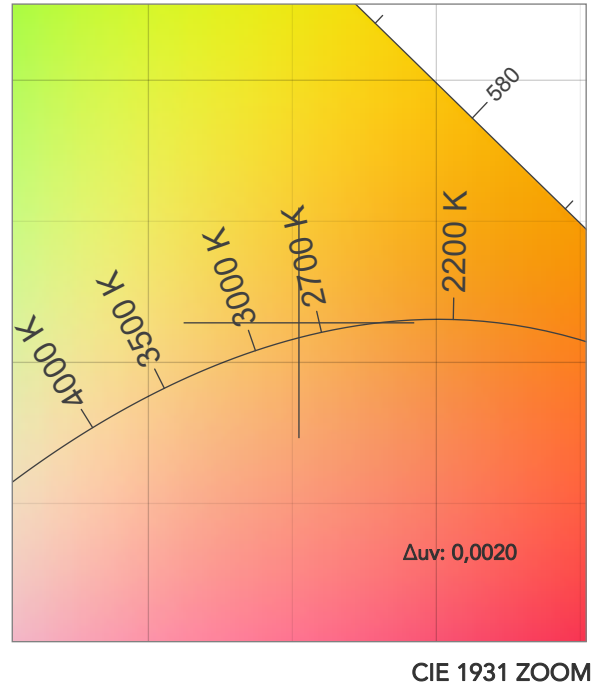
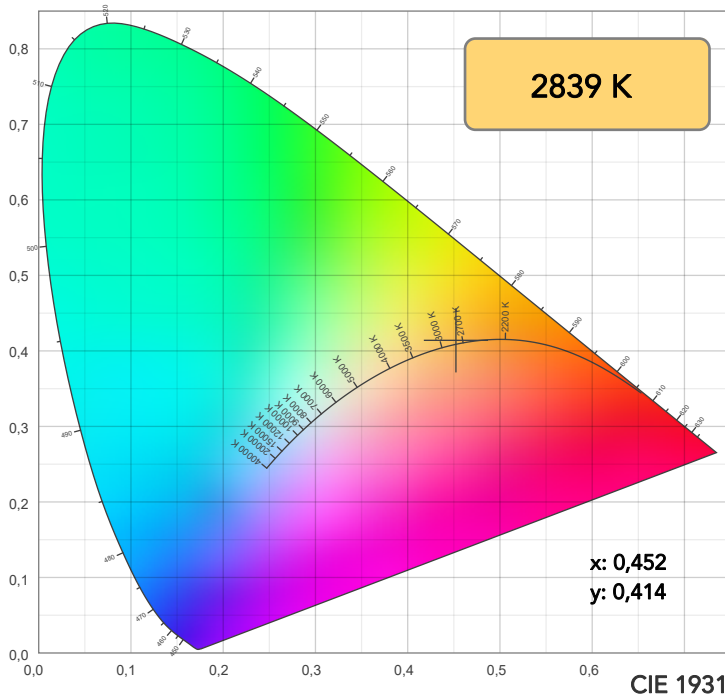
Beam angle 50%: 46,7°

Field angle 10%: 89°

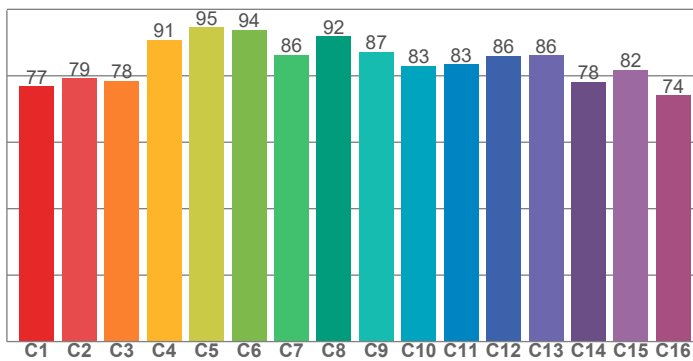
Cut off angle 2.5%: 124°

Spectra

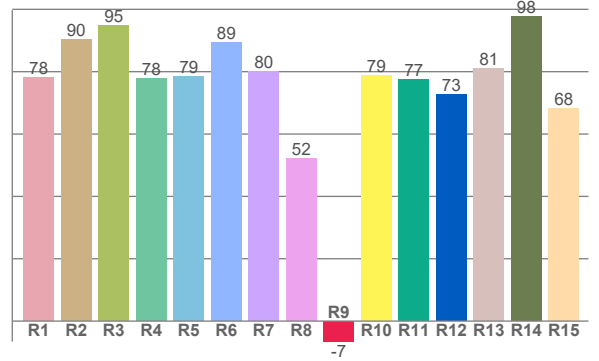




TM30: 84,4



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
78,1	90,2	94,9	77,9	78,5	89,4	80,1	52,2	-6,6	78,8	77,4	72,7	80,9	97,7	68,1

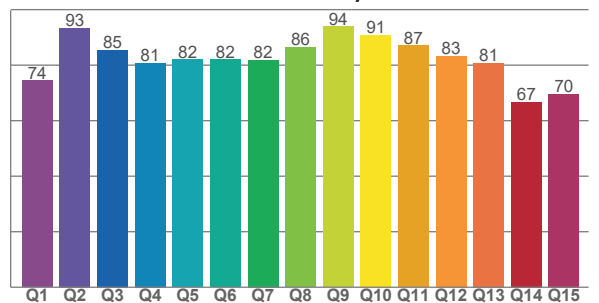
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,4	93,4	85,4	80,9	81,9	82,0	81,9	86,4	93,9	90,9	87,1	83,3	80,8	66,8	69,6

CQS: 80,9



COLOR PARAMETERS

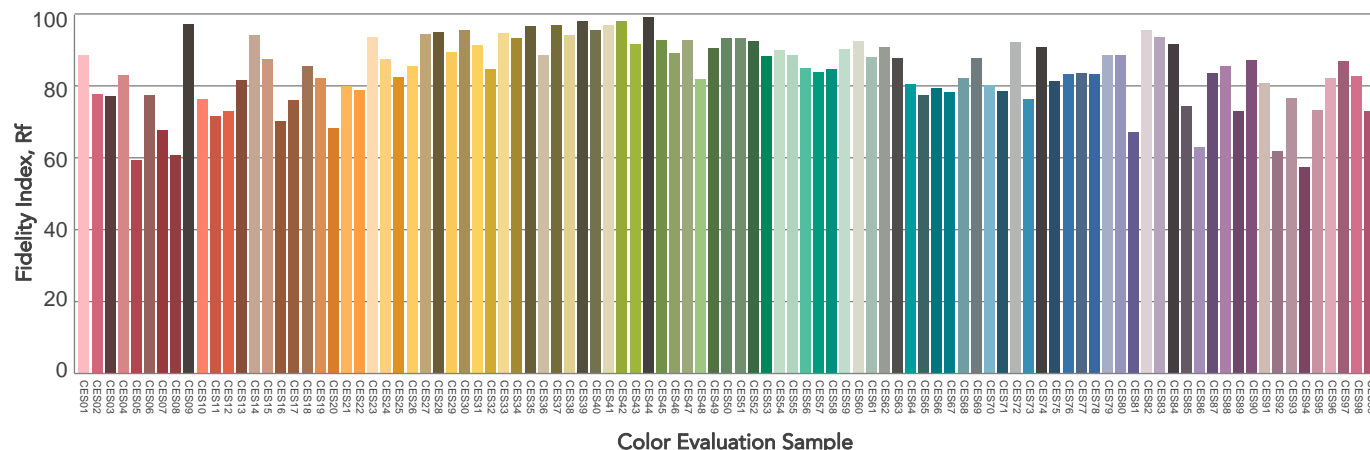
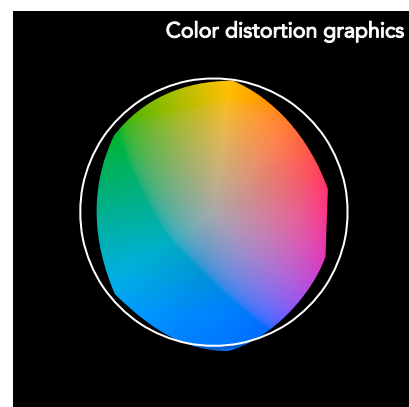
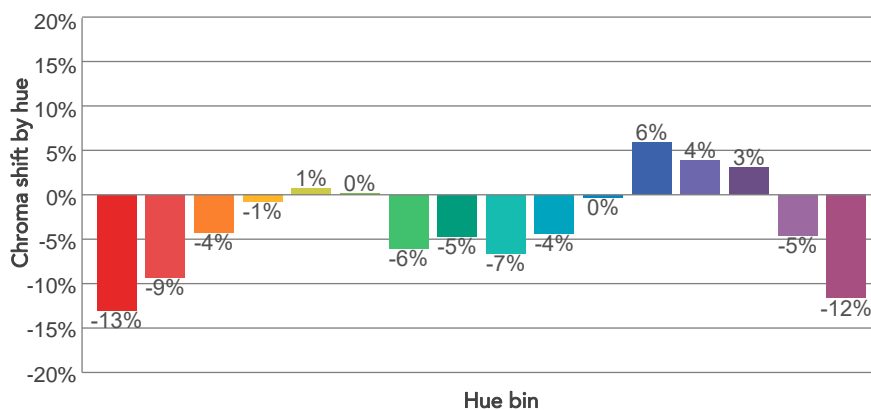
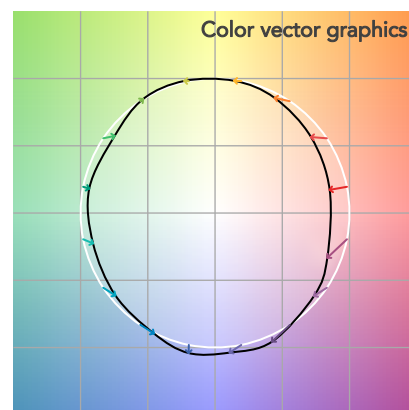
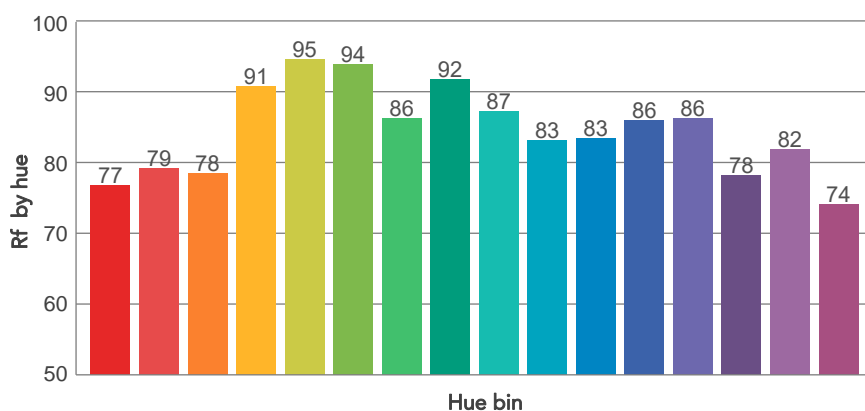
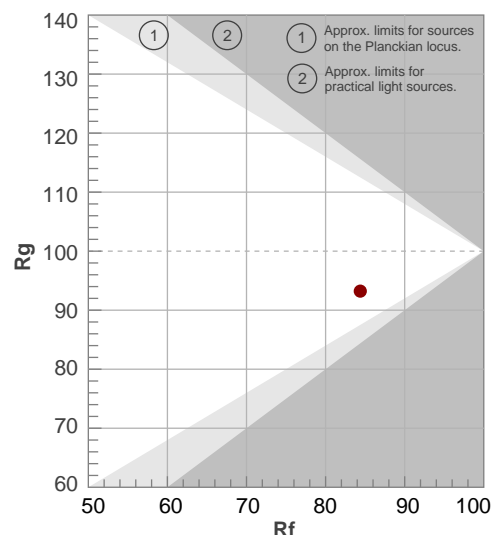
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2839 K	80,2	-6,6	84,4	93,2	80,9	63	0,452	0,414	0,0020

TM30 DETAILS

Rf 84,4
Fidelity index Rf

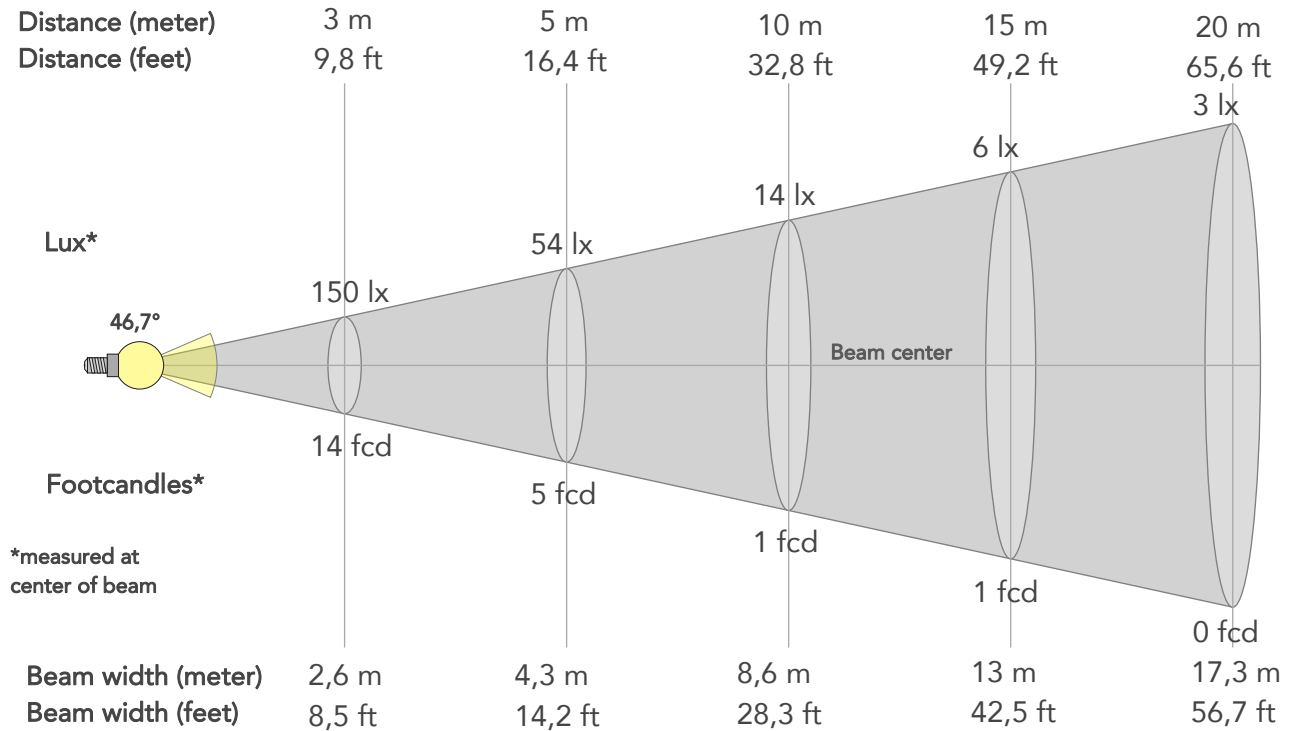
Rg 93,2
Gammut index

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%	4%
10	83	-4%	10%
11	83	0%	12%
12	86	6%	1%
13	86	4%	-10%
14	78	3%	-18%
15	82	-5%	-10%
16	74	-12%	-16%



BEAM DETAILS

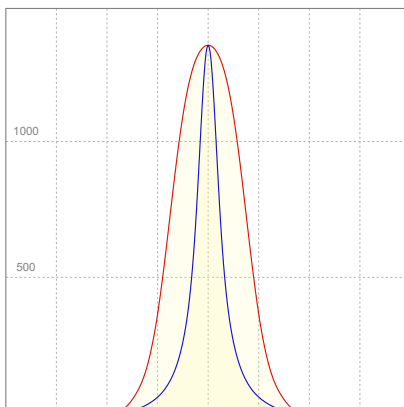
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
46,7°	89°	124°	95,9%	82,6%



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	1354lx	338lx	150lx	85lx	54lx	24lx	14lx	6lx	3lx	2lx	2lx	1lx	1lx
Footcand.	126fcd	31fcd	14fcd	8fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,7m	2,6m	3,5m	4,3m	6,5m	8,6m	13m	17,3m	21,6m	25,9m	34,6m	43,2m
Beam wid.	2,9ft	5,7ft	8,5ft	11,3ft	14,2ft	21,2ft	28,3ft	42,5ft	56,7ft	70,8ft	85ft	113,3ft	141,7ft

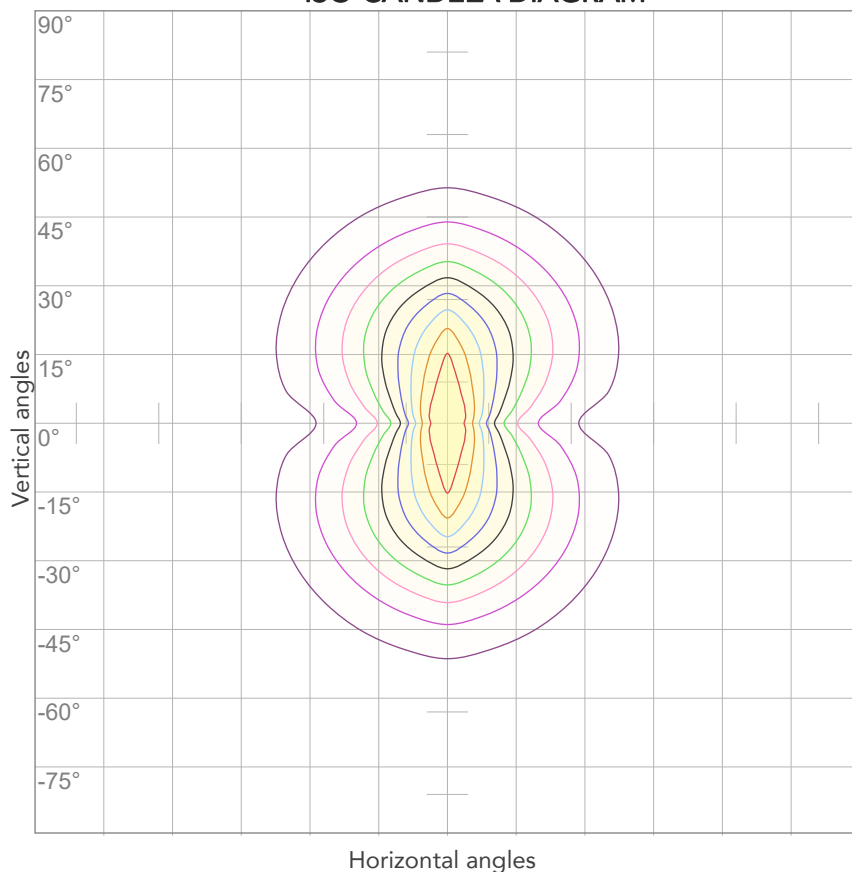
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,117A	23,0W	52lm/W

ISO CANDELA DIAGRAM



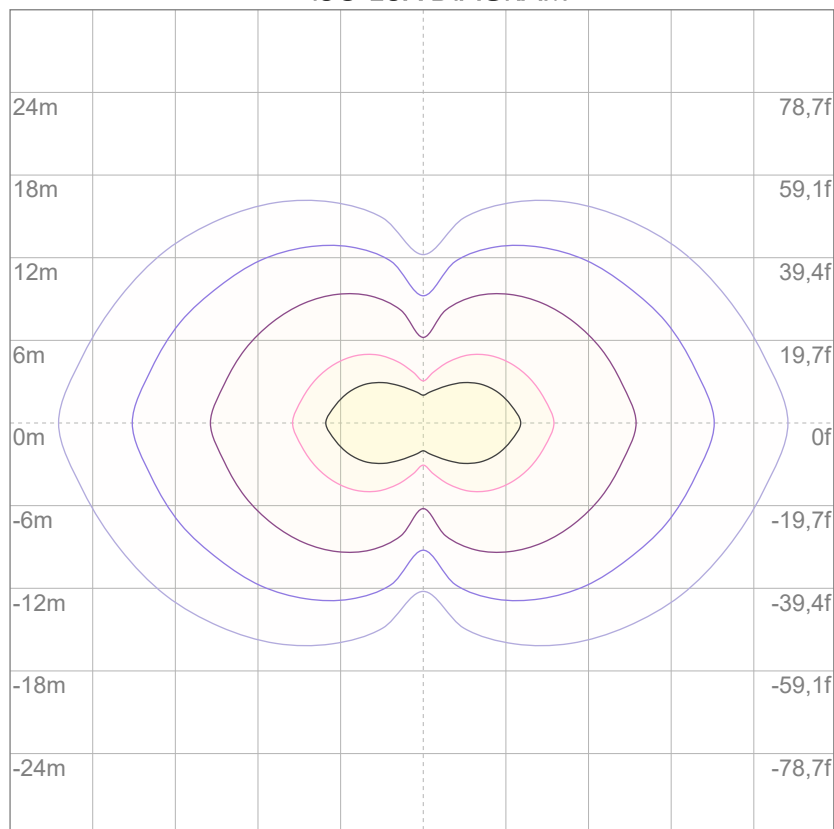
10%	135 cd
20%	271 cd
30%	406 cd
40%	541 cd
50%	677 cd
60%	812 cd
70%	947 cd
80%	1083 cd

Conditions:

Number of c-planes: 4

Candela at center: 1354 cd

ISO LUX DIAGRAM



3%	0,406 lx
5%	0,677 lx
10%	1,35 lx
30%	4,06 lx
50%	6,77 lx

Conditions:

Number of c-planes: 4

Lux at center: 13,5 lx

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

Total lumen output:

1015 lm

Peak candela output:

887 cd

Light quality:

CRI: 80,4

Color temperature:

2840 K



PRODUCT NAME:

ARCSHINES9VW

MEASURAMENT CONDITIONS:

Beam angle:

15° + Filter 30°x60°

Target:

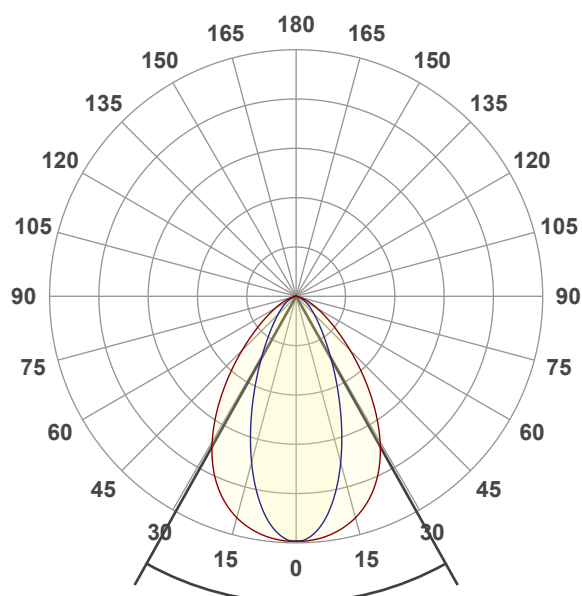
Warm White

Operator:

Paolo Carvone

Date and time:

08/09/2022 10:45:08

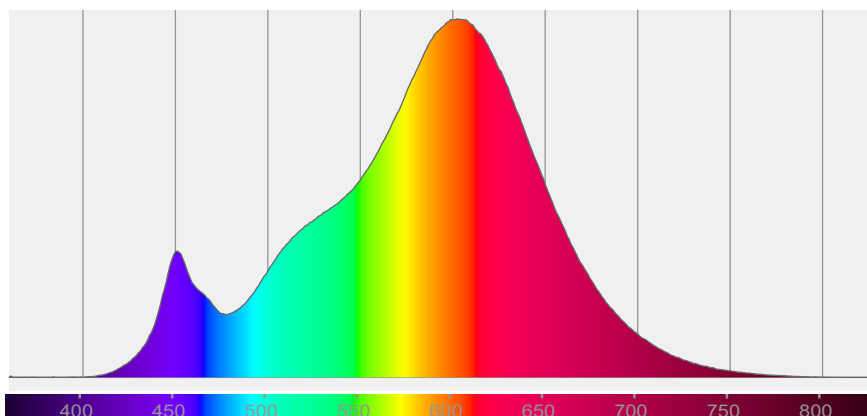


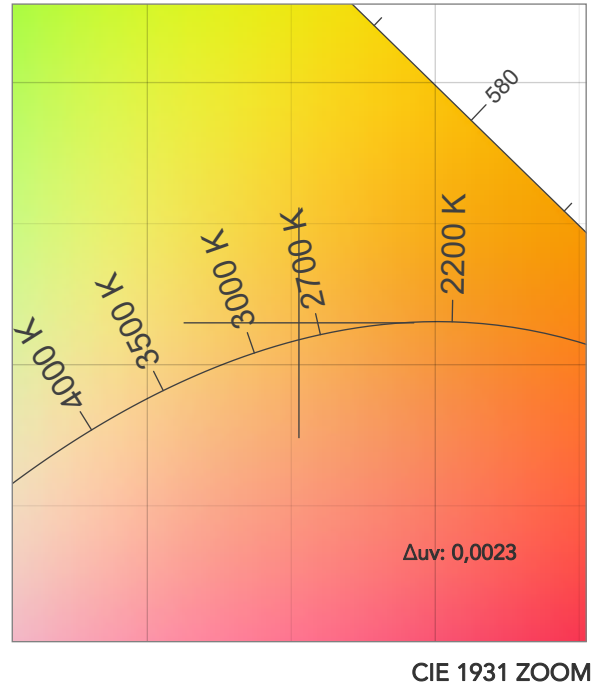
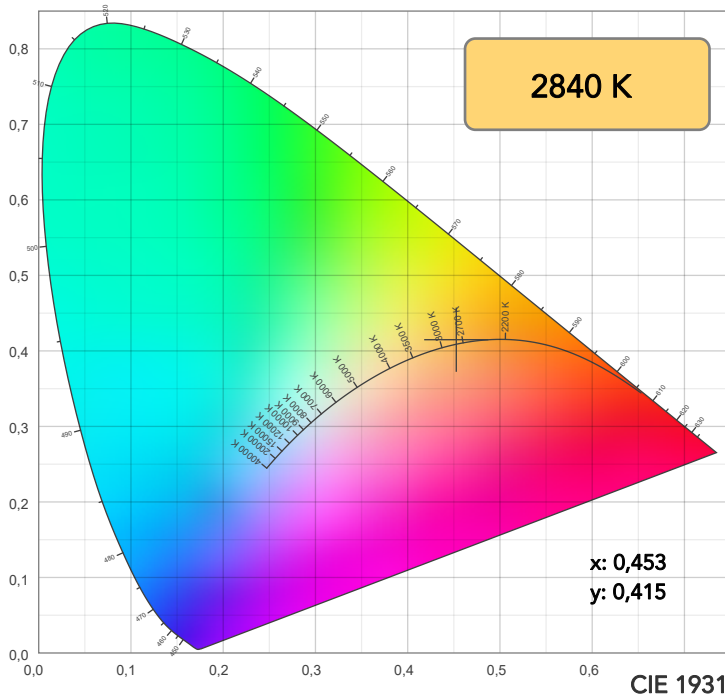
Beam angle 50%: 58,5°

Field angle 10%: 105,9°

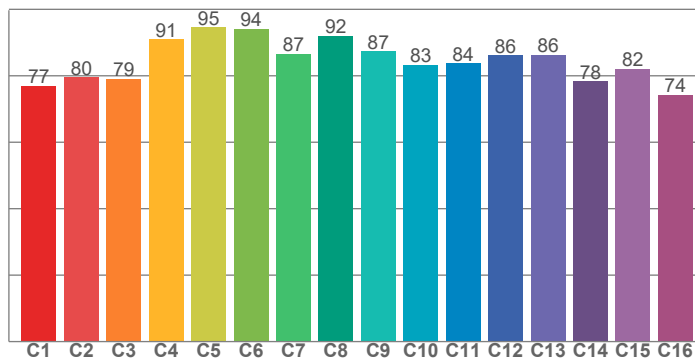
Cut off angle 2.5%: 139,7°

Spectra

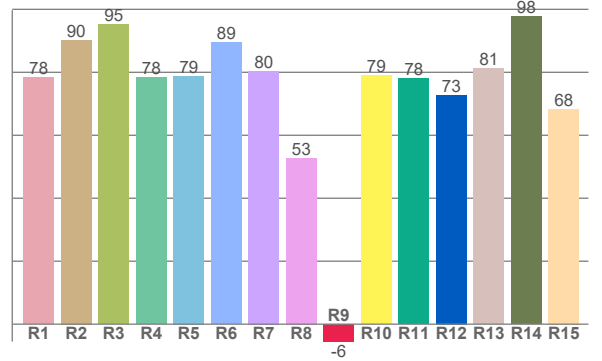




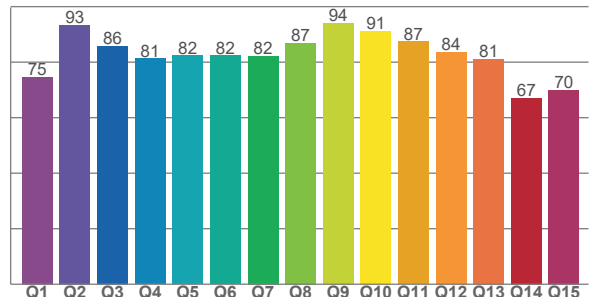
TM30: 84,6



CRI: 80,4 (R1-R8)



CQS: 81,1



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	90,3	95,1	78,3	78,8	89,5	80,4	52,8	-5,5	78,9	78,0	72,8	81,1	97,8	68,3

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
77,0	79,6	79,0	91,0	94,6	94,0	86,5	92,0	87,4	83,3	83,8	86,1	86,3	78,4	82,1	74,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,7	93,4	85,8	81,3	82,3	82,3	82,2	86,9	94,0	91,1	87,4	83,7	81,2	67,1	69,9

COLOR PARAMETERS

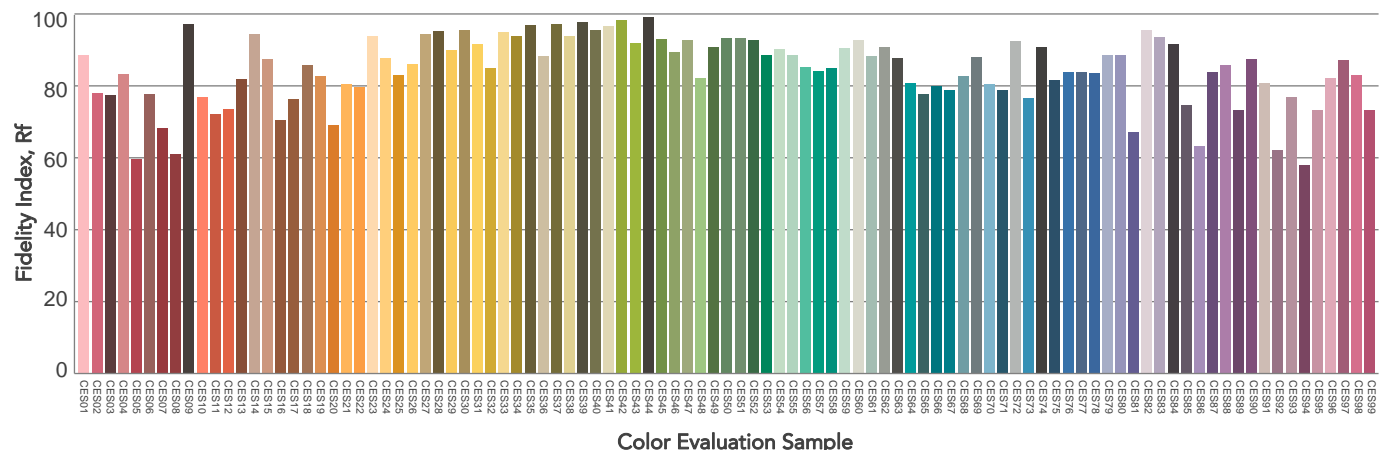
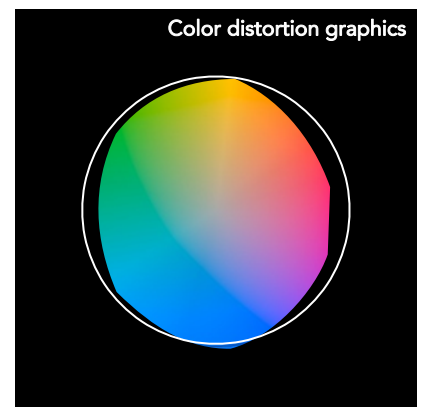
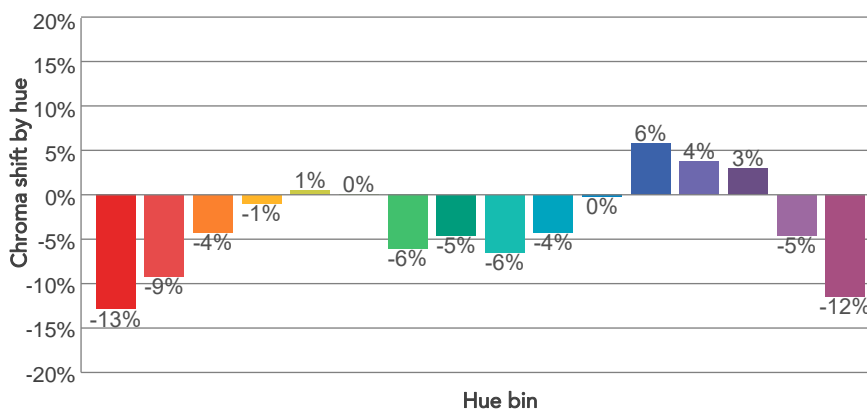
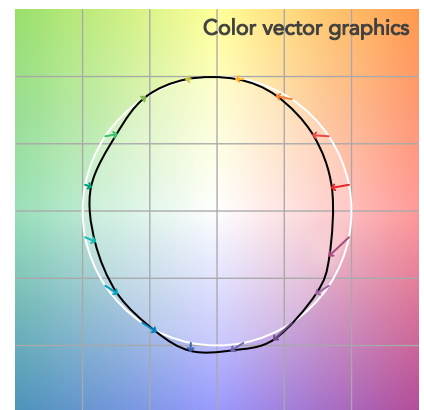
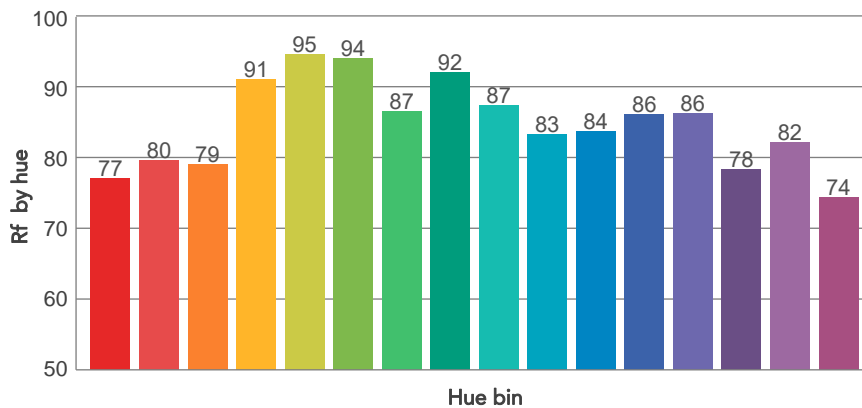
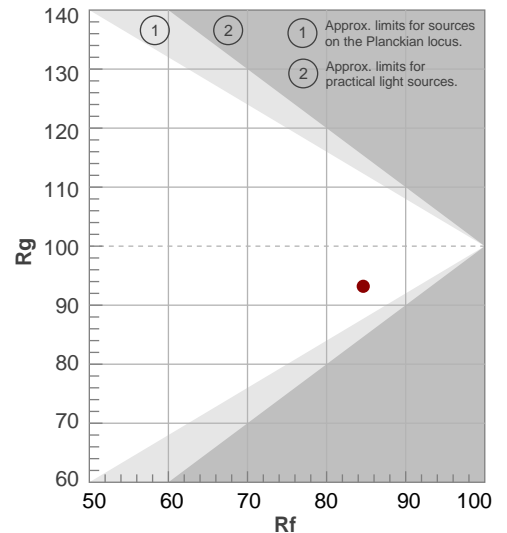
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2840 K	80,4	-5,5	84,6	93,2	81,1	64	0,453	0,415	0,0023

TM30 DETAILS

Rf 84,6
Fidelity index Rf

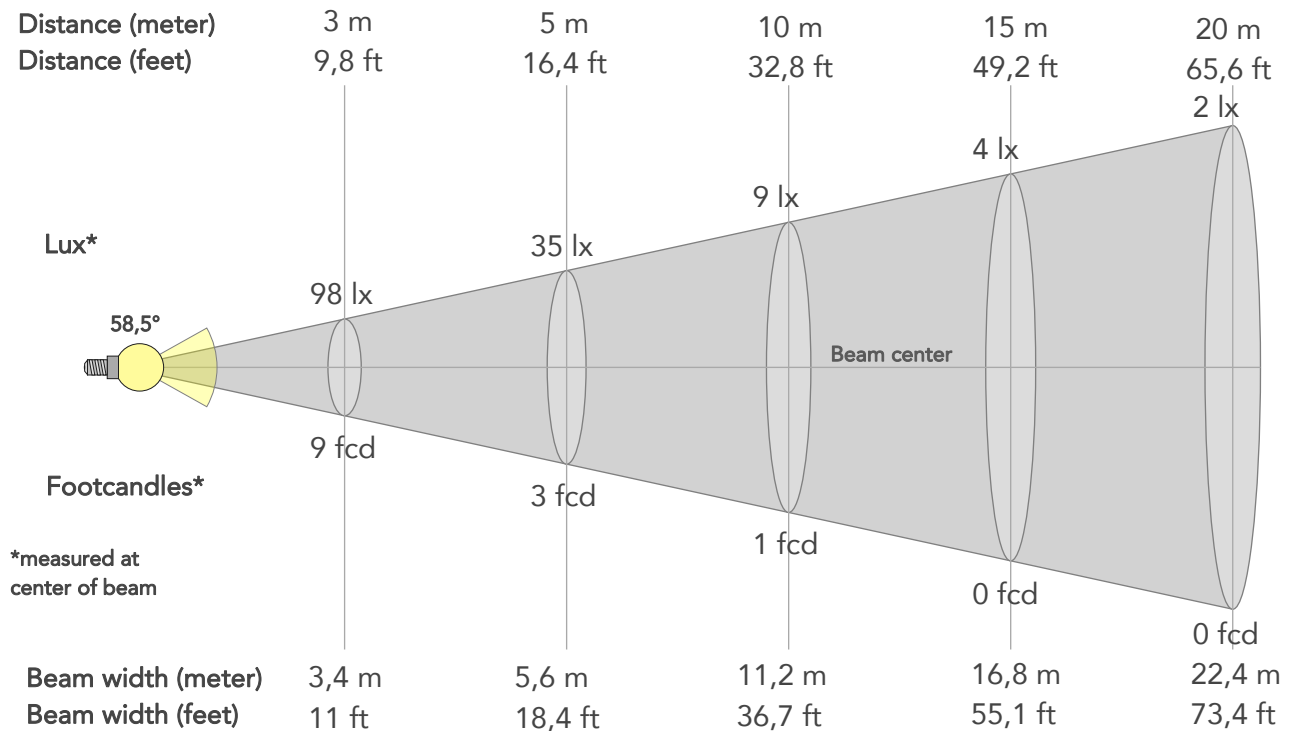
Rg 93,2
Gammut index

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%	-2%
7	87	-6%	-6%
8	92	-5%	1%
9	87	-6%	4%
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

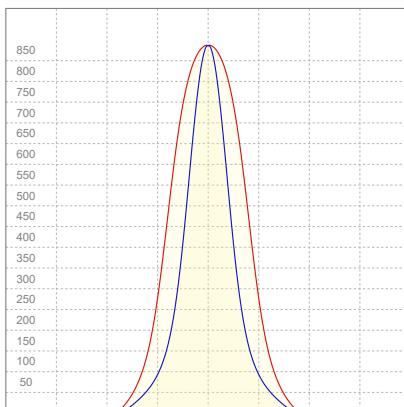
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
58,5°	105,9°	139,7°	94,6%	80,1%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	886lx	222lx	98lx	55lx	35lx	16lx	9lx	4lx	2lx	1lx	1lx	1lx	0lx
Footcand.	82fcd	21fcd	9fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,2m	3,4m	4,5m	5,6m	8,4m	11,2m	16,8m	22,4m	28m	33,6m	44,8m	55,9m
Beam wid.	3,7ft	7,4ft	11ft	14,7ft	18,4ft	27,5ft	36,7ft	55,1ft	73,4ft	91,8ft	110,1ft	146,8ft	183,5ft

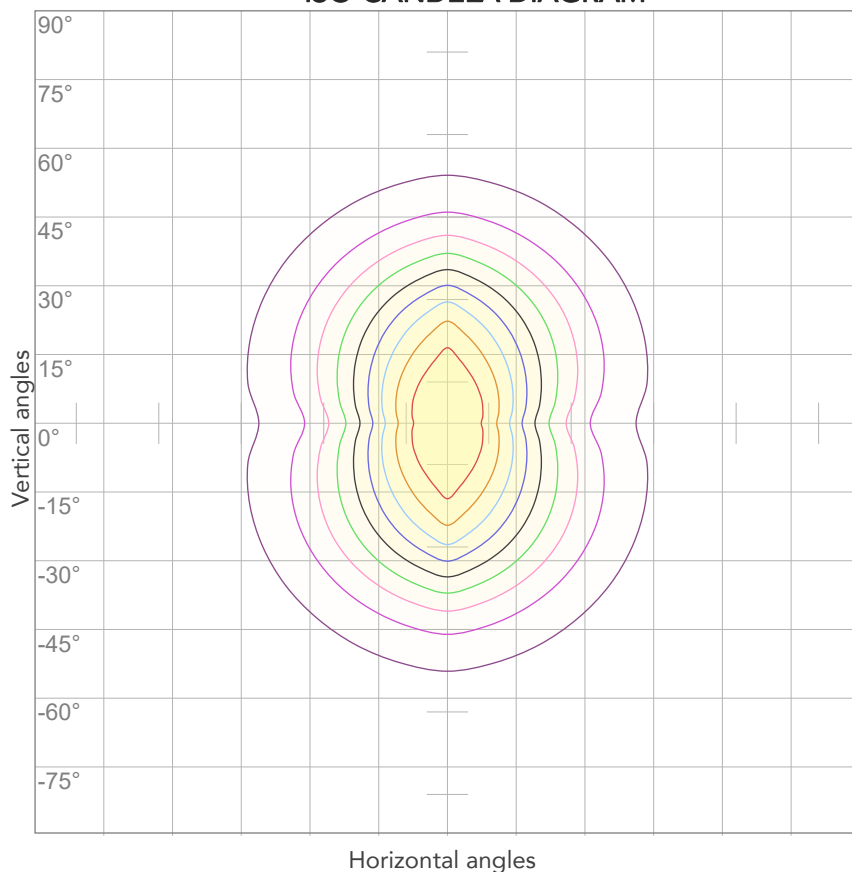
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	0,118A	23,2W	44lm/W

ISO CANDELA DIAGRAM



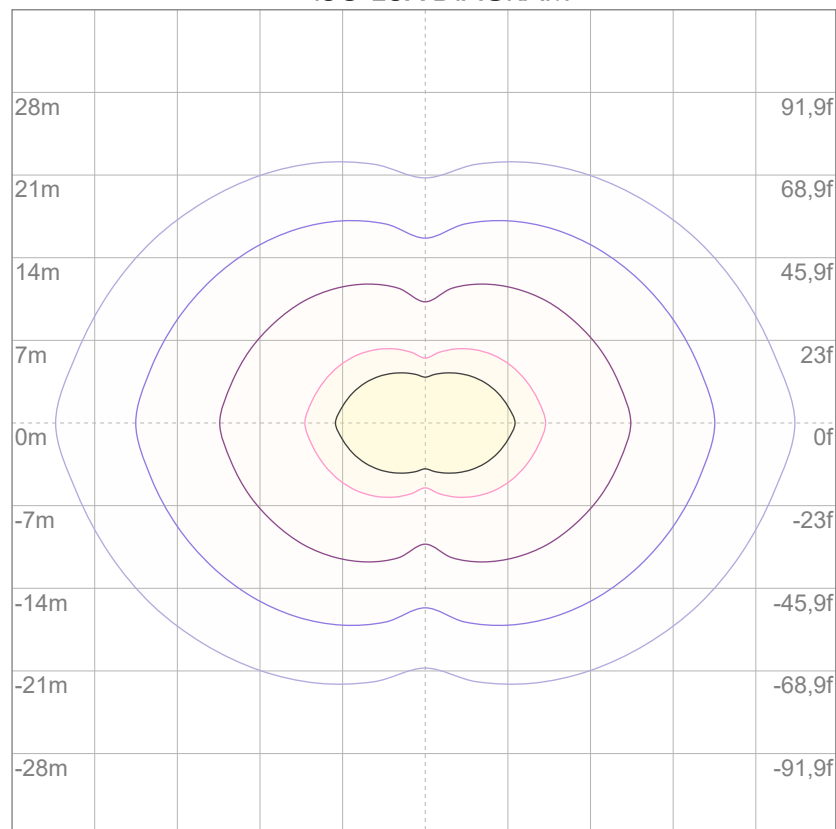
10%	89 cd
20%	177 cd
30%	266 cd
40%	355 cd
50%	443 cd
60%	532 cd
70%	620 cd
80%	709 cd

Conditions:

Number of c-planes: 4

Candela at center: 886 cd

ISO LUX DIAGRAM



3%	0,266 lx
5%	0,443 lx
10%	0,886 lx
30%	2,66 lx
50%	4,43 lx

Conditions:

Number of c-planes: 4

Lux at center: 8,86 lx

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

Total lumen output:

1189 lm

Peak candela output:

6244 cd

Light quality:

CRI: 83,2

Color temperature:

6830 K



PRODUCT NAME:

ARCSHINES9VW

MEASURAMENT CONDITIONS:

Beam angle:

15°

Target:

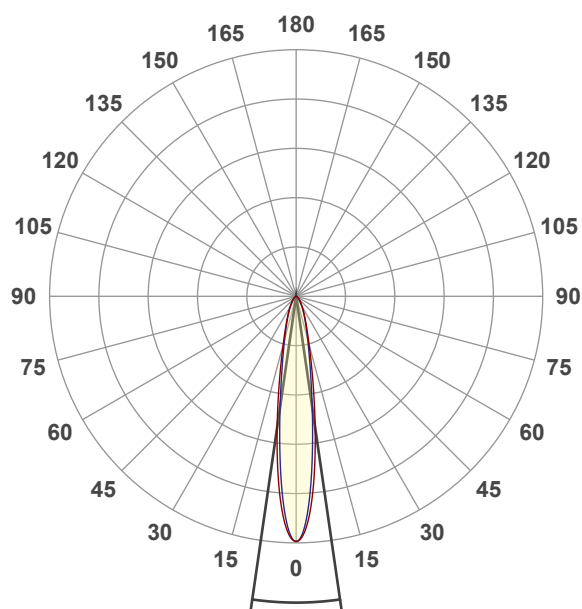
Cold White

Operator:

Paolo Carvone

Date and time:

08/09/2022 10:29:30

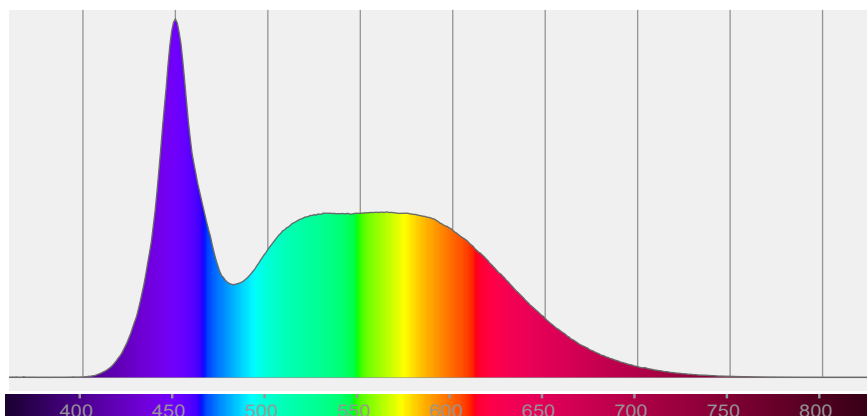


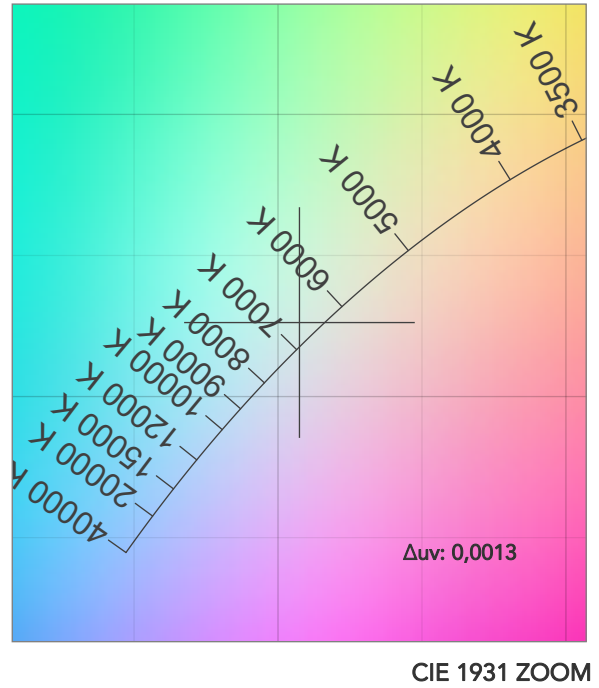
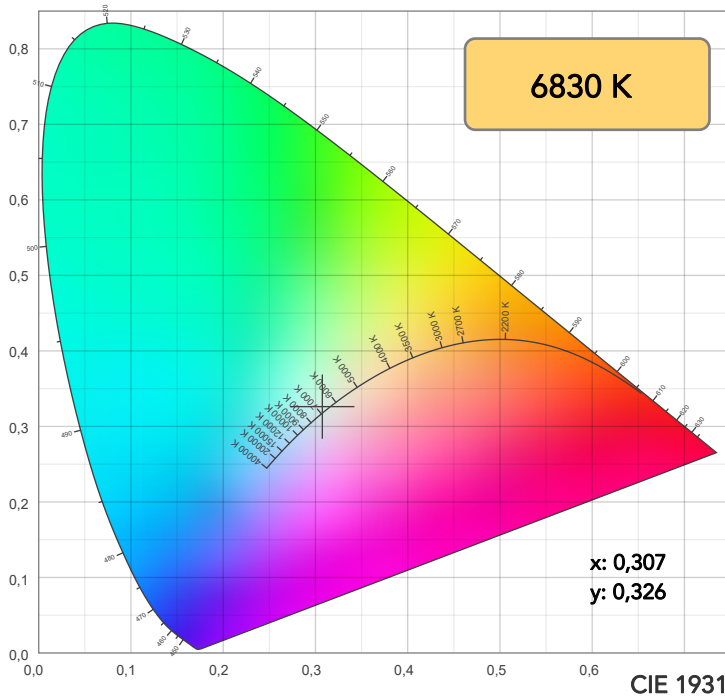
Beam angle 50%: 16,5°

Field angle 10%: 42,5°

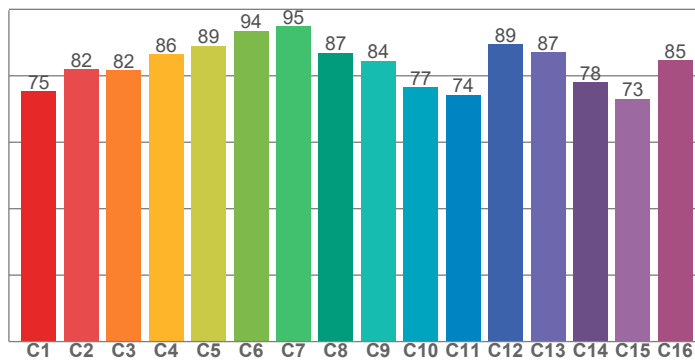
Cut off angle 2.5%: 76,8°

Spectra

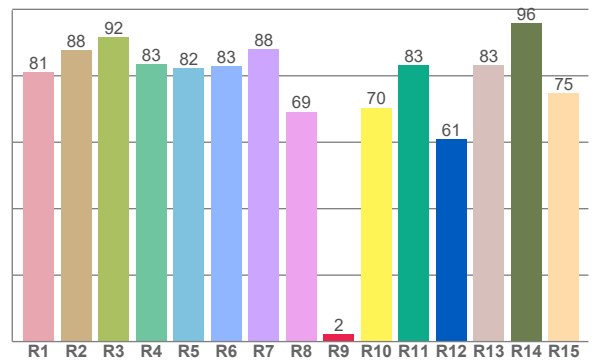




TM30: 83,8



CRI: 83,2 (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
81,1	87,6	91,6	83,5	82,2	82,8	88,0	69,2	2,3	70,4	83,2	60,9	83,2	95,7	74,8

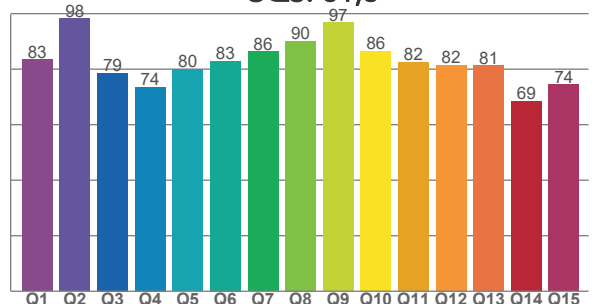
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
75,3	81,9	81,7	86,4	89,0	93,6	94,8	86,9	84,4	76,5	74,2	89,5	87,0	78,1	73,0	84,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
83,4	98,3	78,5	73,6	79,9	82,9	86,3	90,2	96,7	86,4	82,5	81,5	81,3	68,5	74,4

CQS: 81,3



COLOR PARAMETERS

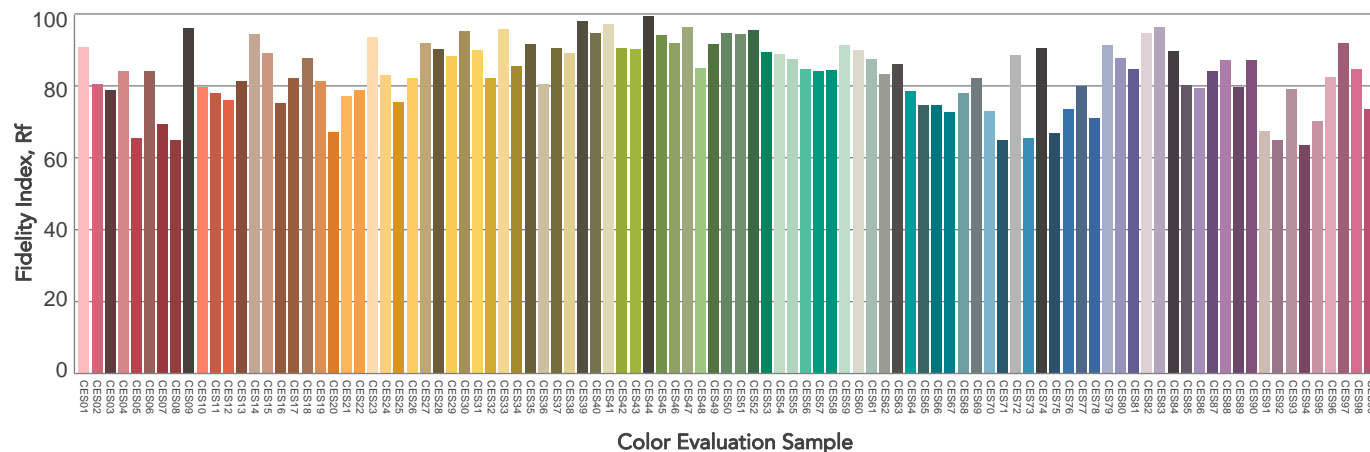
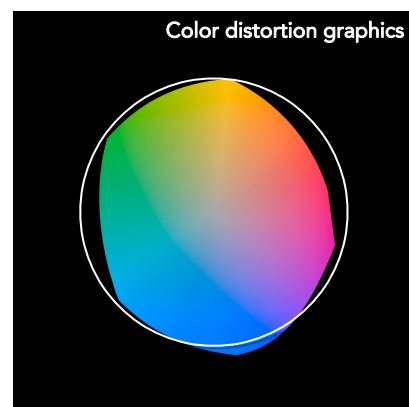
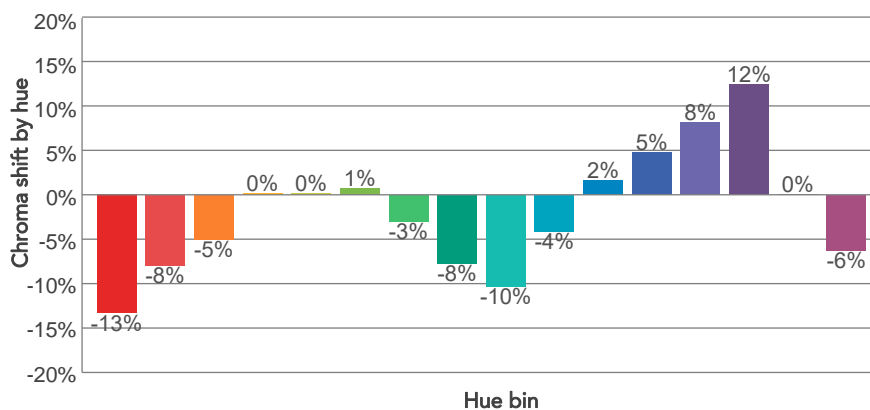
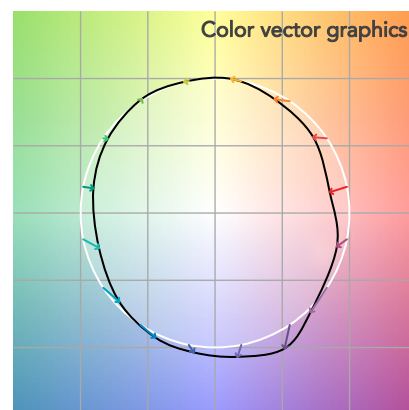
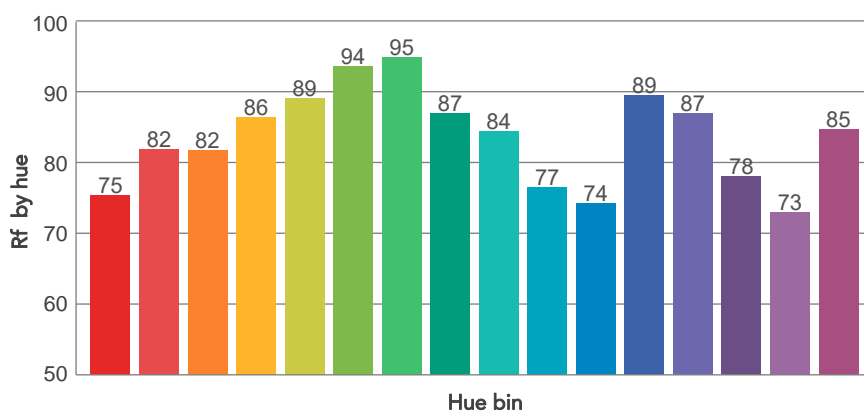
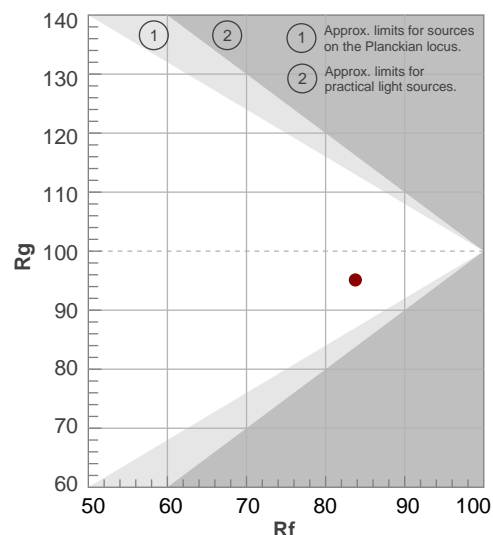
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6830 K	83,2	2,3	83,8	95,1	81,3	70	0,307	0,326	0,0013

TM30 DETAILS

Rf 83,8
Fidelity index Rf

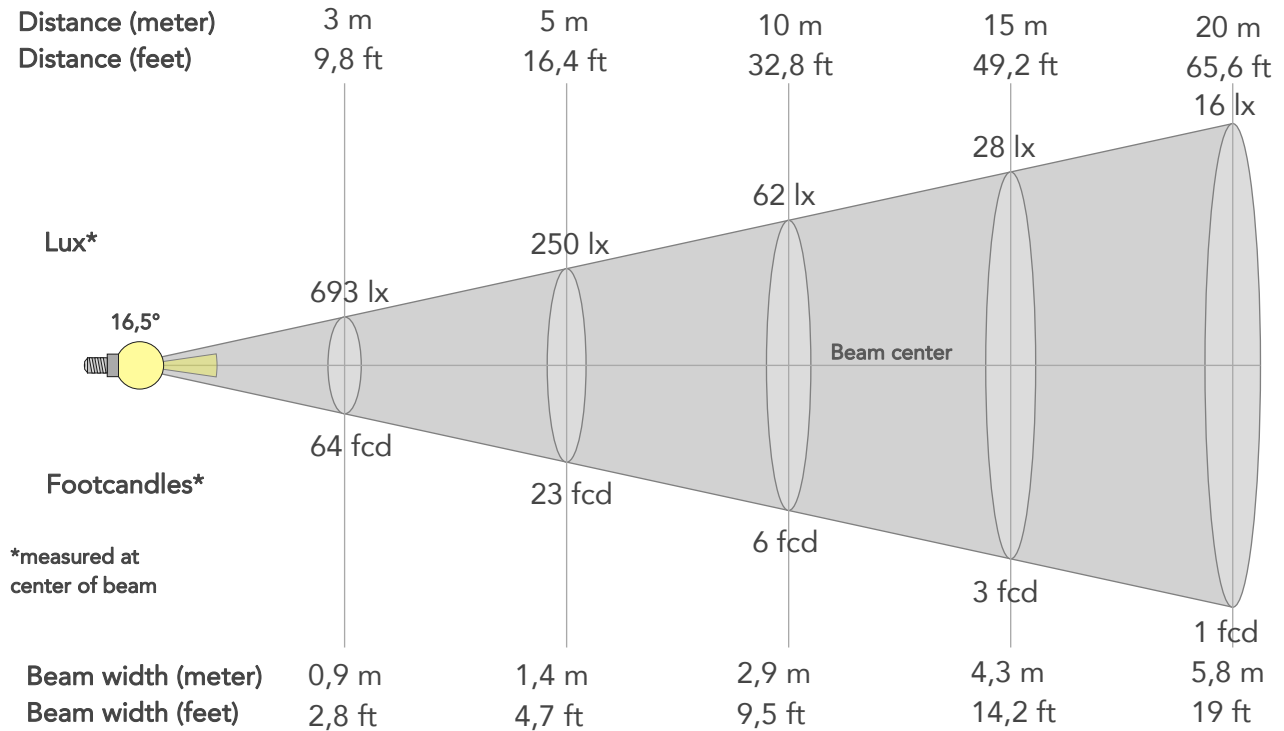
Rg 95,1
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	75	-13%	-1%
2	82	-8%	6%
3	82	-5%	10%
4	86	0%	8%
5	89	0%	3%
6	94	1%	-2%
7	95	-3%	-1%
8	87	-8%	0%
9	84	-10%	9%
10	77	-4%	15%
11	74	2%	14%
12	89	5%	5%
13	87	8%	-5%
14	78	12%	-13%
15	73	0%	-22%
16	85	-6%	-7%



BEAM DETAILS

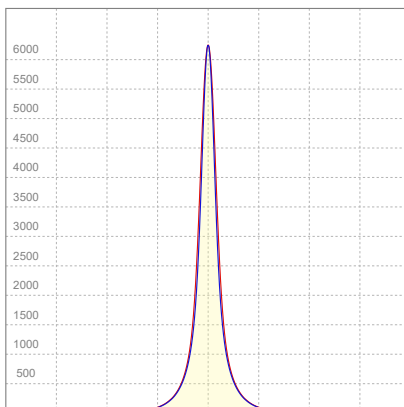
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16,5°	42,5°	76,8°	98,8%	92,5%



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	6239lx	1560lx	693lx	390lx	250lx	111lx	62lx	28lx	16lx	10lx	7lx	4lx	2lx
Footcand.	580fcd	145fcd	64fcd	36fcd	23fcd	10fcd	6fcd	3fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,9m	1,2m	1,4m	2,2m	2,9m	4,3m	5,8m	7,2m	8,7m	11,6m	14,5m
Beam wid.	1ft	1,9ft	2,8ft	3,8ft	4,7ft	7,1ft	9,5ft	14,2ft	19ft	23,7ft	28,5ft	38ft	47,5ft

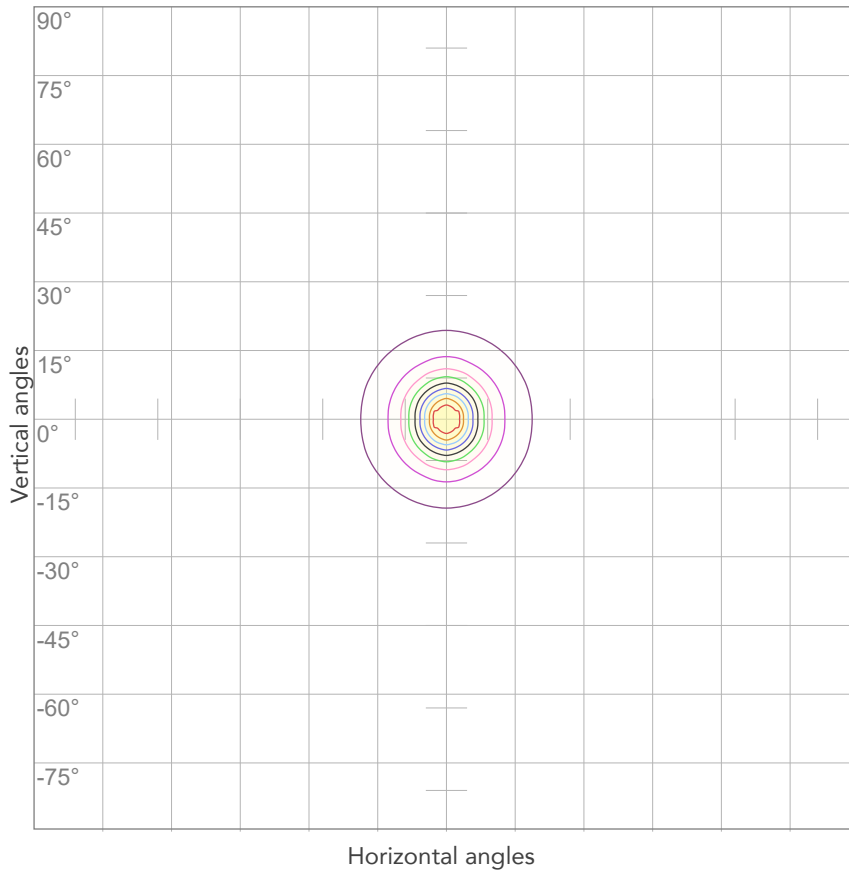
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,116A	22,9W	52lm/W

ISO CANDELA DIAGRAM



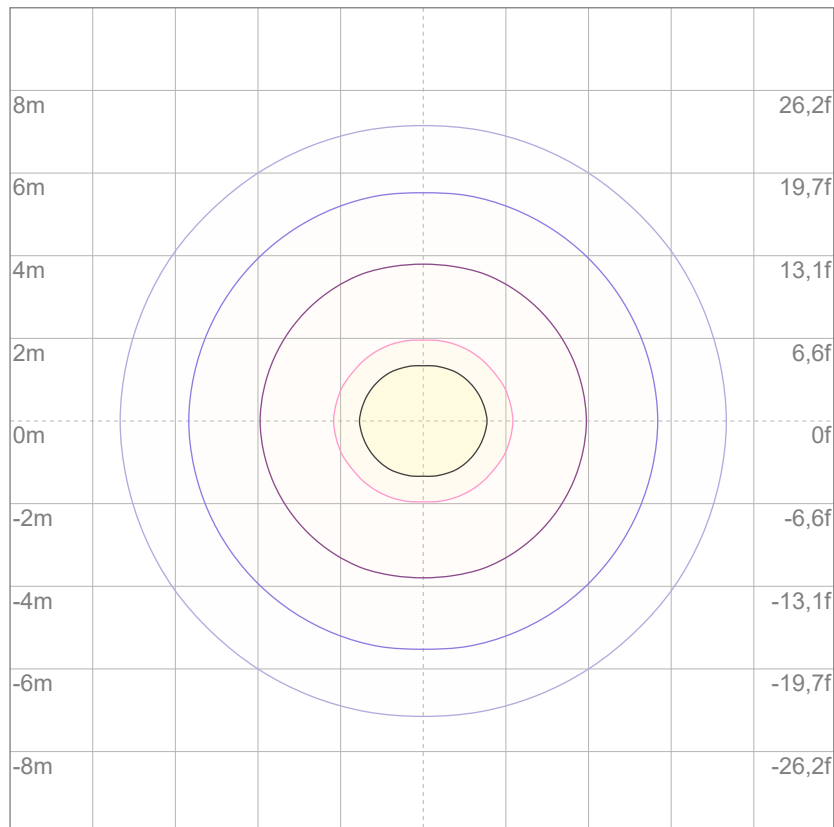
10%	624 cd
20%	1248 cd
30%	1872 cd
40%	2495 cd
50%	3119 cd
60%	3743 cd
70%	4367 cd
80%	4991 cd

Conditions:

Number of c-planes: 4

Candela at center: 6239 cd

ISO LUX DIAGRAM



3%	1,87 lx
5%	3,12 lx
10%	6,24 lx
30%	18,7 lx
50%	31,2 lx

Conditions:

Number of c-planes: 4

Lux at center: 62,4 lx

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

Total lumen output:

1113 lm

Peak candela output:

2238 cd

Light quality:

CRI: 83,2

Color temperature:

6791 K



PRODUCT NAME:

ARCSHINES9VW

MEASURAMENT CONDITIONS:

Beam angle:

15° + Filter 20°

Target:

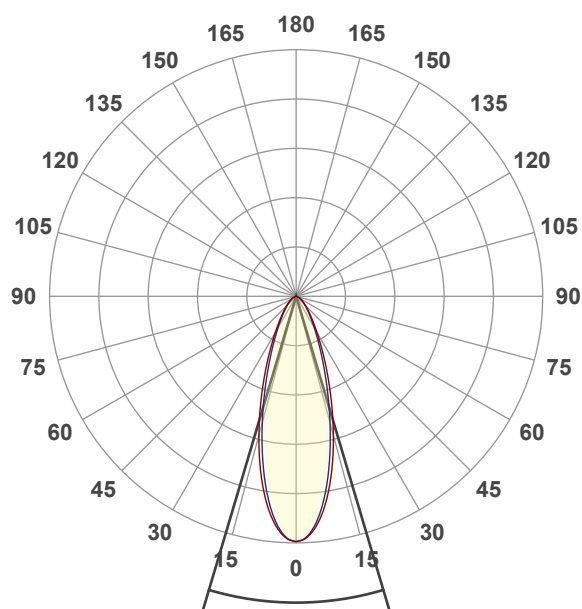
Cold White

Operator:

Paolo Carvone

Date and time:

08/09/2022 11:03:18

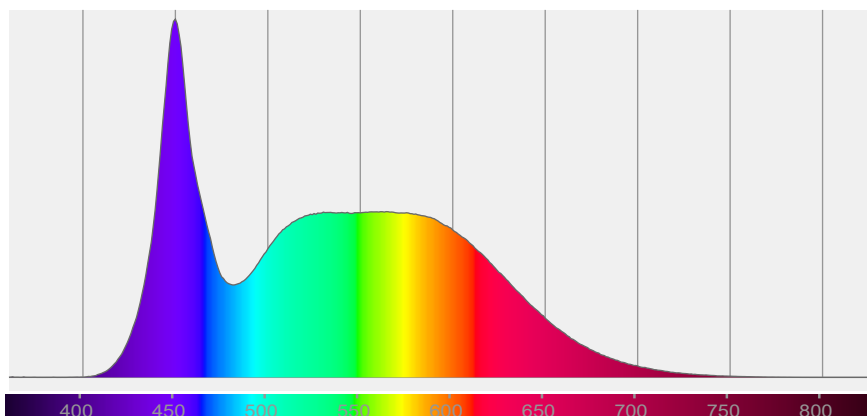


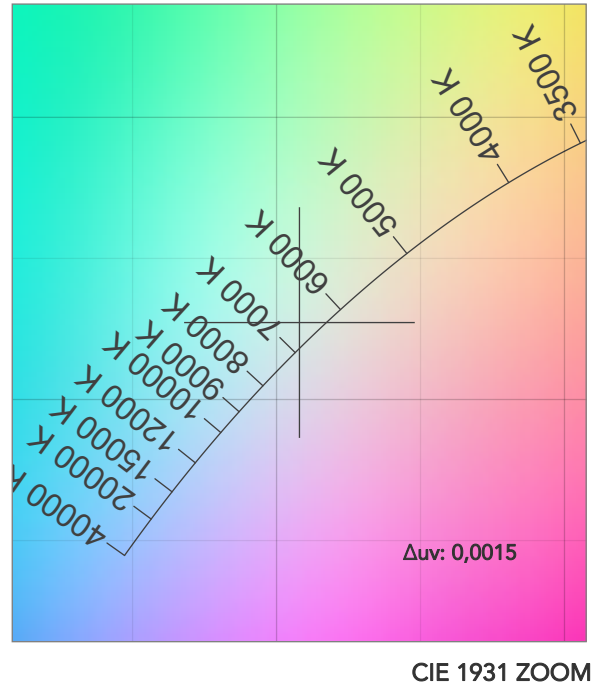
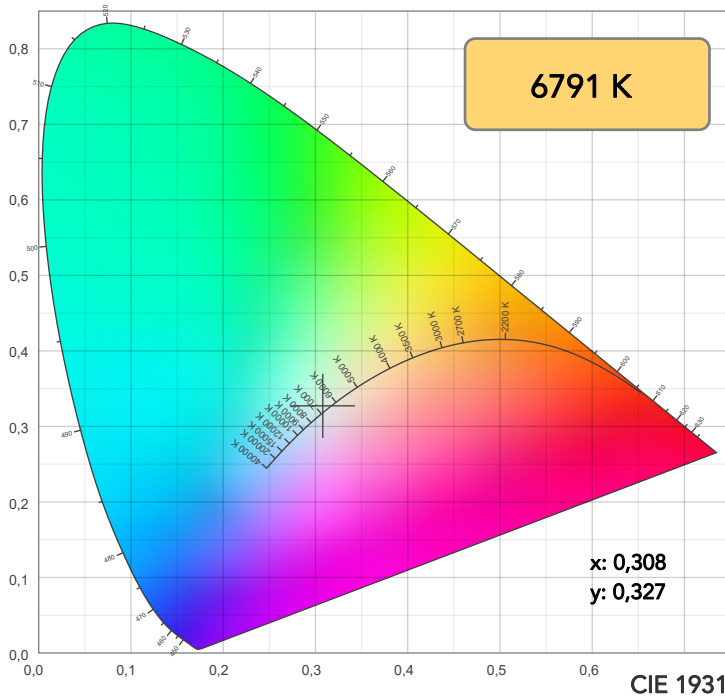
Beam angle 50%: 33,1°

Field angle 10%: 71,6°

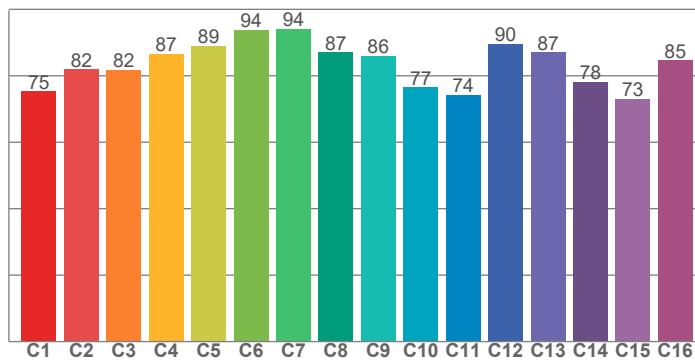
Cut off angle 2.5%: 111,8°

Spectra

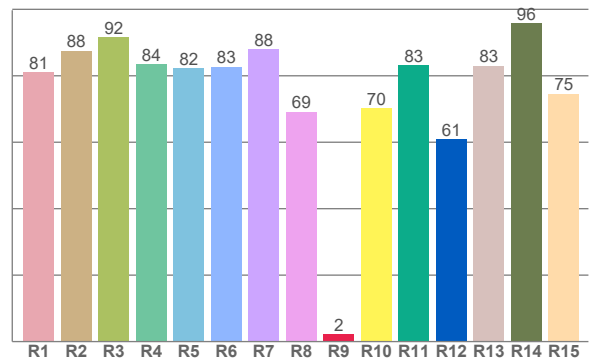




TM30: 83,8



CRI: 83,2 (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
81,1	87,5	91,6	83,5	82,2	82,8	88,0	69,1	2,2	70,2	83,3	60,9	83,0	95,7	74,6

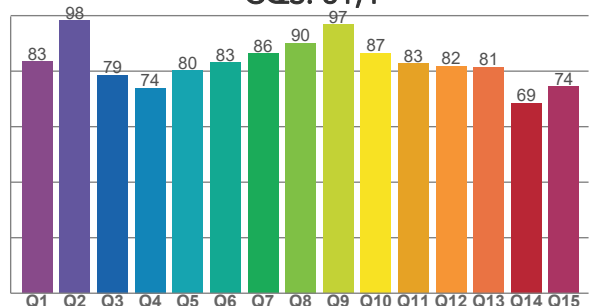
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
75,4	82,0	81,7	86,5	89,1	93,7	94,1	87,0	86,0	76,5	74,3	89,5	87,0	78,1	73,0	84,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
83,4	98,3	78,7	73,9	80,2	83,1	86,3	90,2	96,8	86,5	82,7	81,7	81,5	68,6	74,4

CQS: 81,4



COLOR PARAMETERS

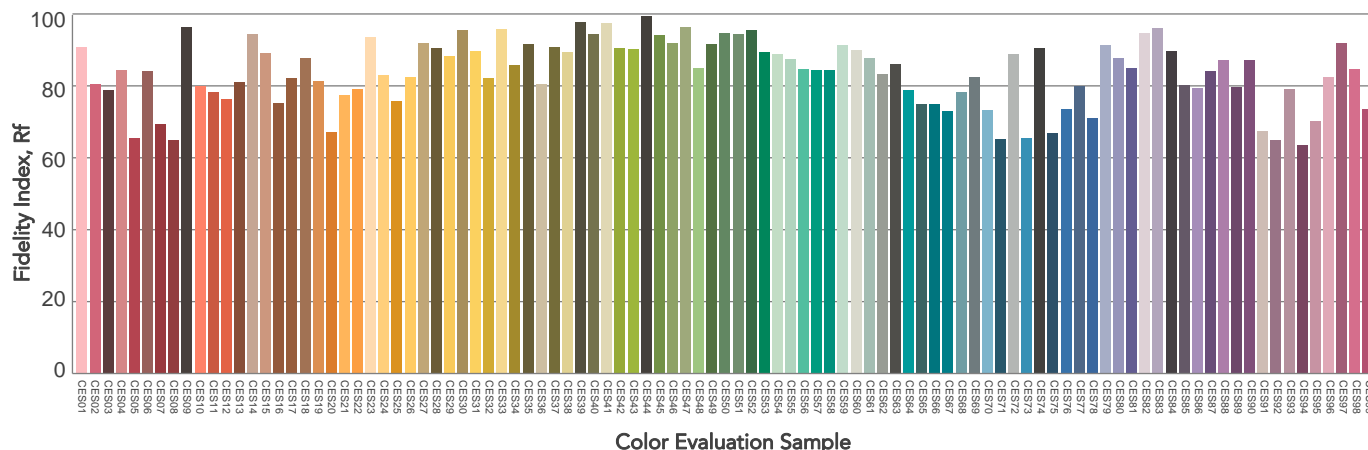
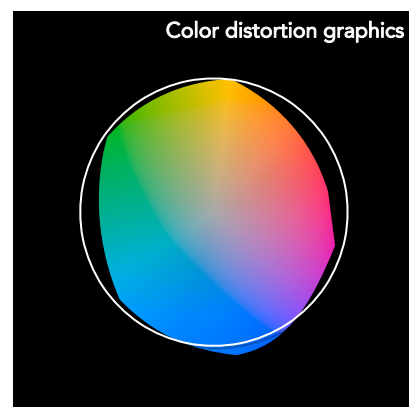
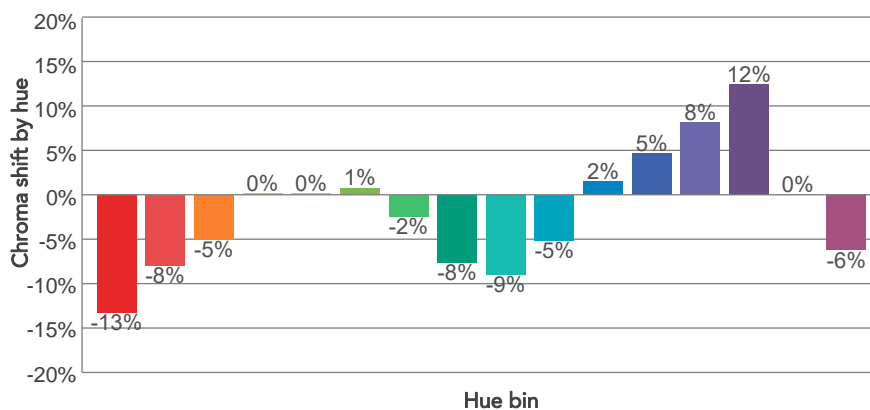
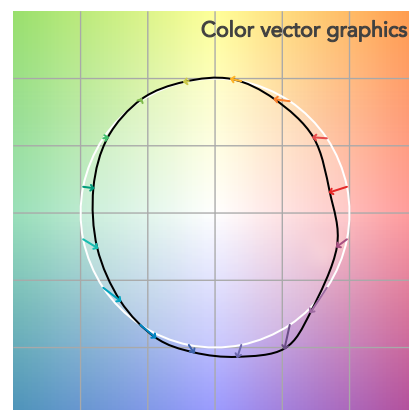
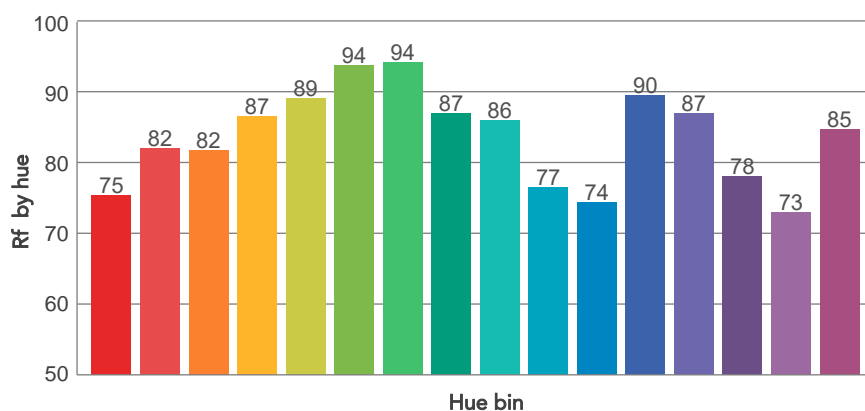
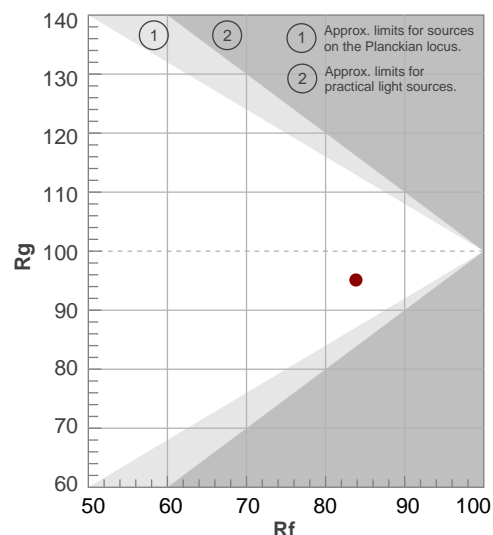
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6791 K	83,2	2,2	83,8	95,1	81,4	70	0,308	0,327	0,0015

TM30 DETAILS

Rf 83,8
Fidelity index Rf

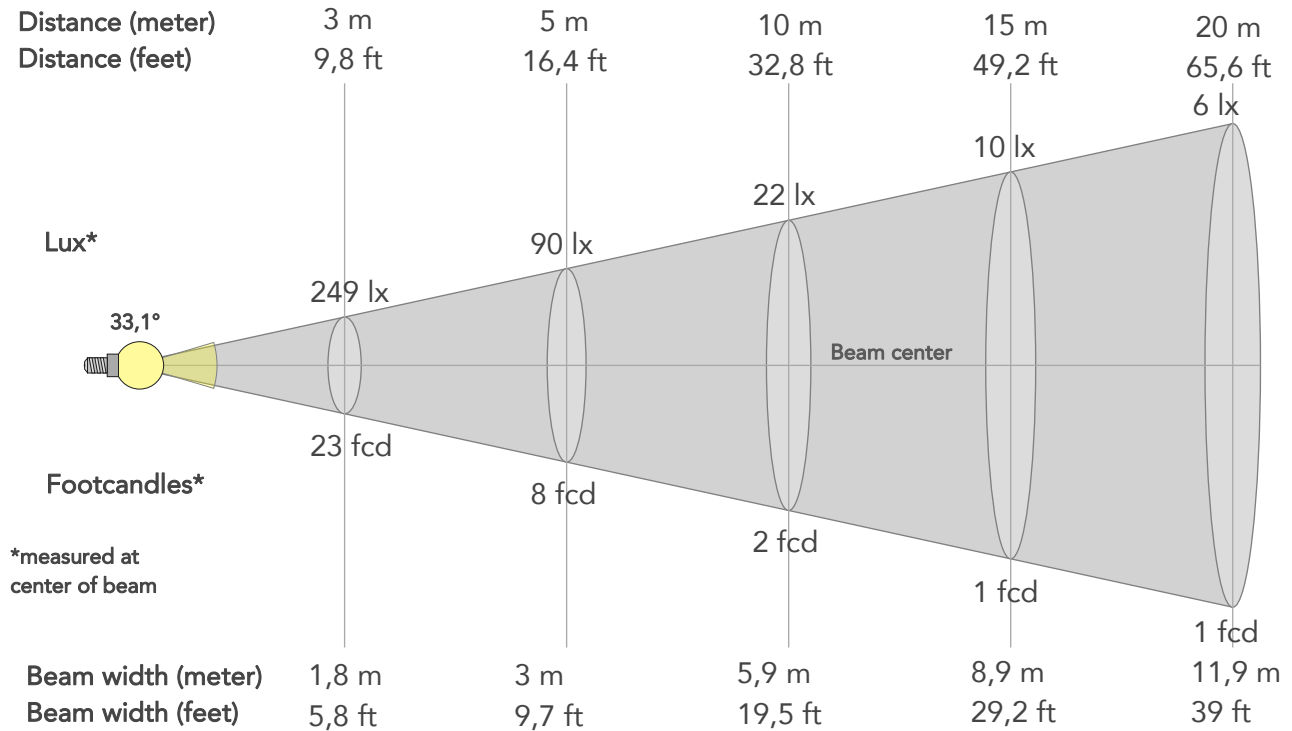
Rg 95,1
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	75	-13%	-2%
2	82	-8%	6%
3	82	-5%	10%
4	87	0%	8%
5	89	0%	3%
6	94	1%	-1%
7	94	-2%	-2%
8	87	-8%	0%
9	86	-9%	8%
10	77	-5%	15%
11	74	2%	14%
12	90	5%	5%
13	87	8%	-5%
14	78	12%	-13%
15	73	0%	-22%
16	85	-6%	-7%



BEAM DETAILS

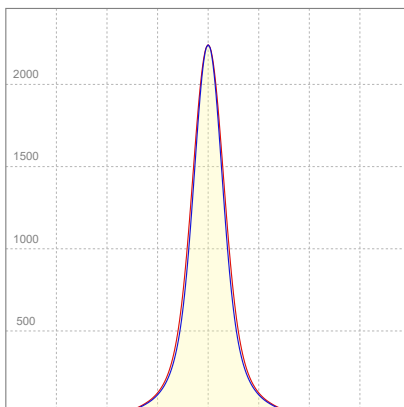
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
33,1°	71,6°	111,8°	97,3%	88,8%



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	2238lx	559lx	249lx	140lx	90lx	40lx	22lx	10lx	6lx	4lx	2lx	1lx	1lx
Footcand.	208fcd	52fcd	23fcd	13fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,2m	1,8m	2,4m	3m	4,5m	5,9m	8,9m	11,9m	14,9m	17,8m	23,8m	29,7m
Beam wid.	2ft	3,9ft	5,8ft	7,8ft	9,7ft	14,6ft	19,5ft	29,2ft	39ft	48,7ft	58,5ft	77,9ft	97,4ft

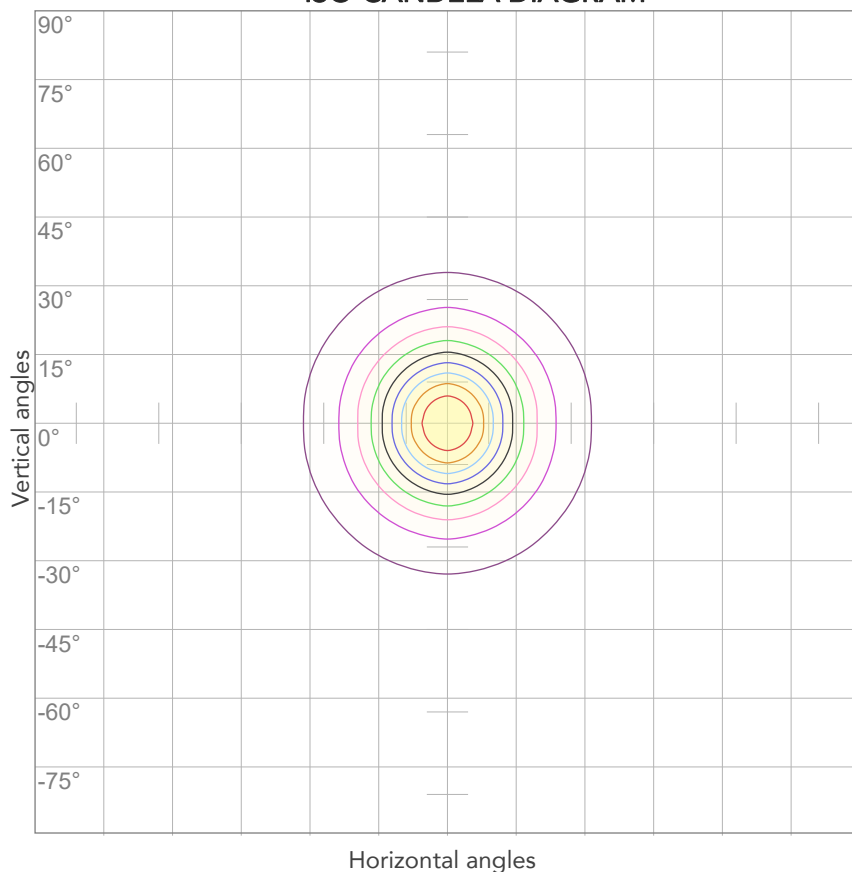
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
221V	0,118A	23,0W	48lm/W

ISO CANDELA DIAGRAM



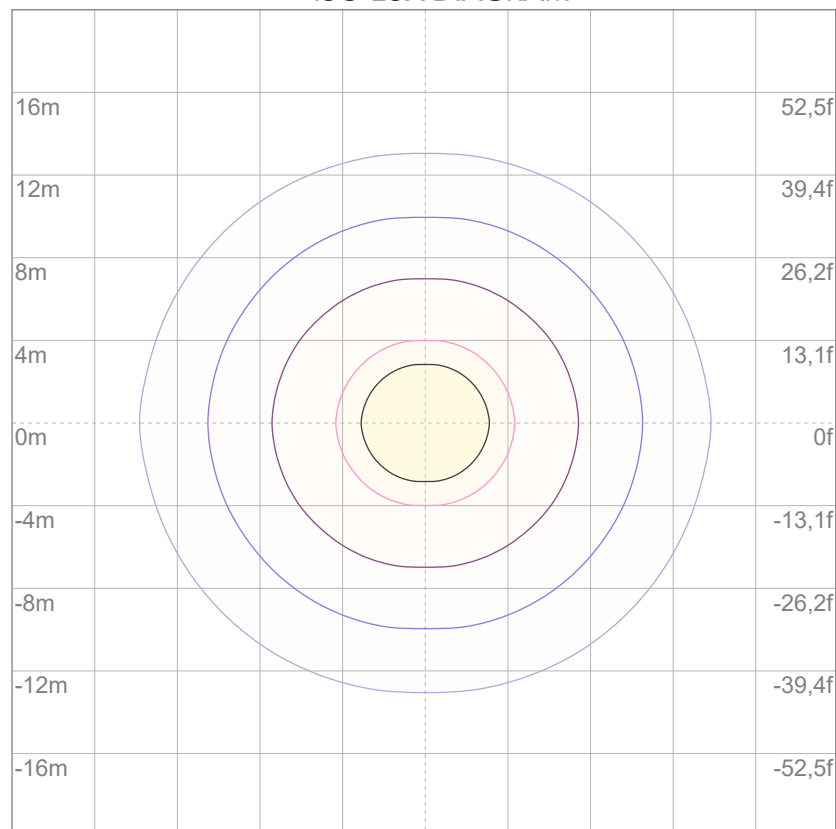
10%	224 cd
20%	448 cd
30%	671 cd
40%	895 cd
50%	1119 cd
60%	1343 cd
70%	1566 cd
80%	1790 cd

Conditions:

Number of c-planes: 4

Candela at center: 2238 cd

ISO LUX DIAGRAM



3%	0,671 lx
5%	1,12 lx
10%	2,24 lx
30%	6,71 lx
50%	11,2 lx

Conditions:

Number of c-planes: 4

Lux at center: 22,4 lx

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

Total lumen output:

1050 lm

Peak candela output:

760 cd

Light quality:

CRI: 83,4

Color temperature:

6865 K



PRODUCT NAME:

ARCSHINES9VW

MEASURAMENT CONDITIONS:

Beam angle:

15° + Filter 60°

Target:

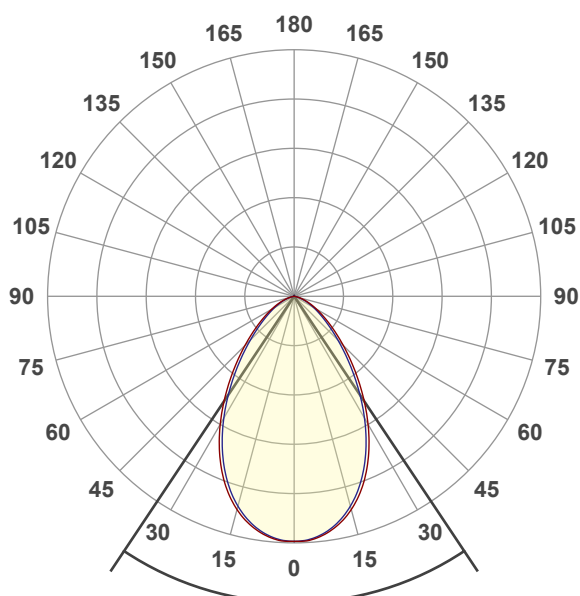
Cold White

Operator:

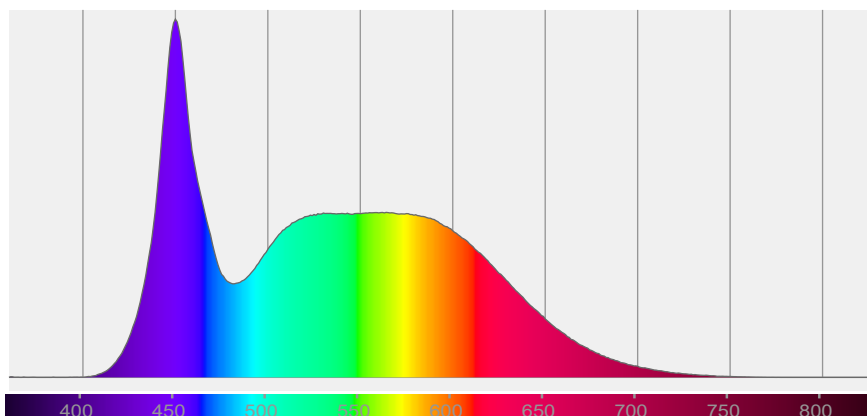
Paolo Carvone

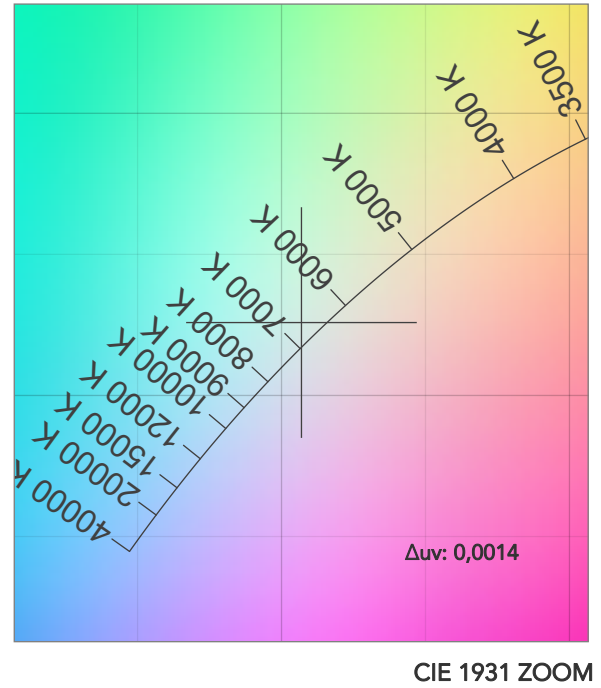
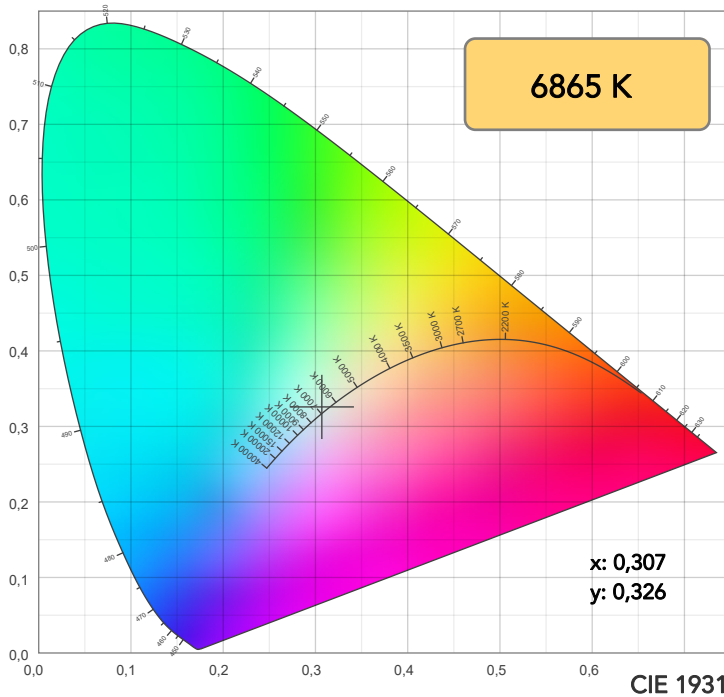
Date and time:

08/09/2022 11:40:35

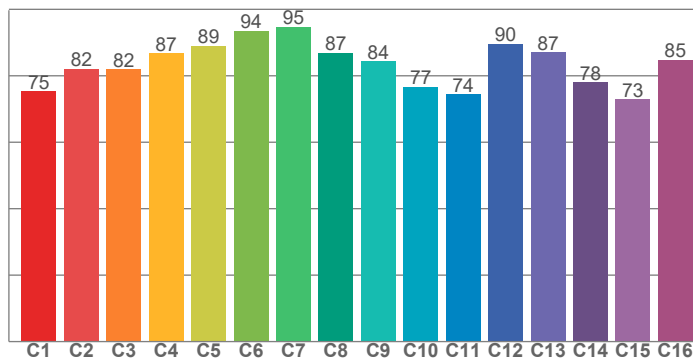


Spectra

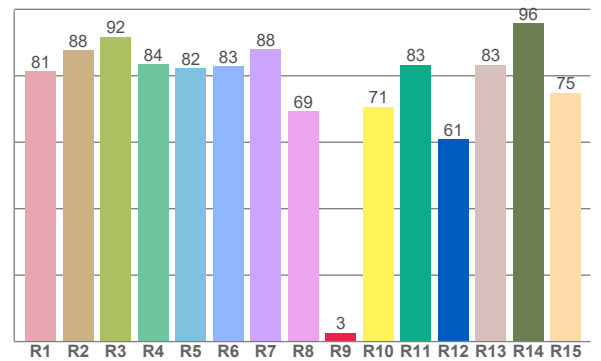




TM30: 83,8



CRI: 83,4 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
81,3	87,8	91,7	83,5	82,3	83,0	88,1	69,3	2,7	70,7	83,3	60,9	83,3	95,8	74,9

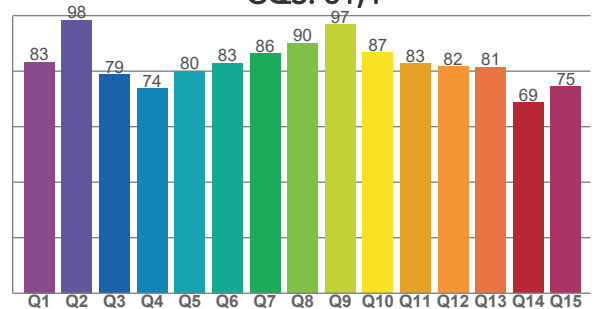
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
75,4	82,0	81,9	86,7	89,1	93,6	94,8	86,9	84,4	76,6	74,4	89,7	87,0	78,0	73,0	84,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
83,4	98,4	78,8	73,7	80,0	82,9	86,4	90,2	96,8	86,6	82,7	81,7	81,5	68,7	74,5

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
6865 K	83,4	2,7	83,8	95,1	81,4	70	0,307	0,326	0,0014

TM30 DETAILS

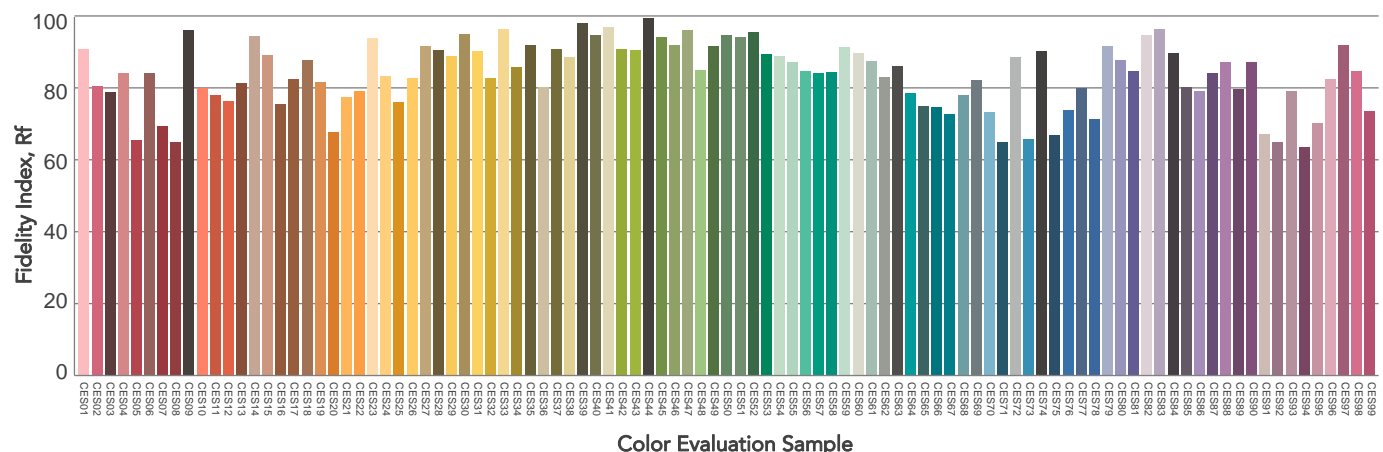
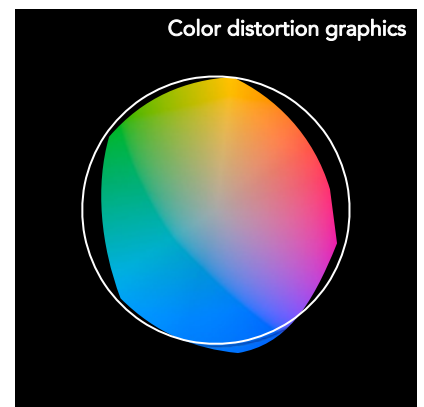
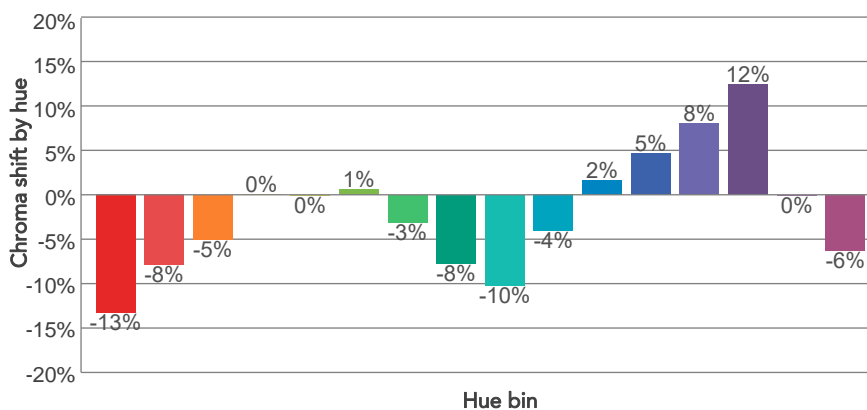
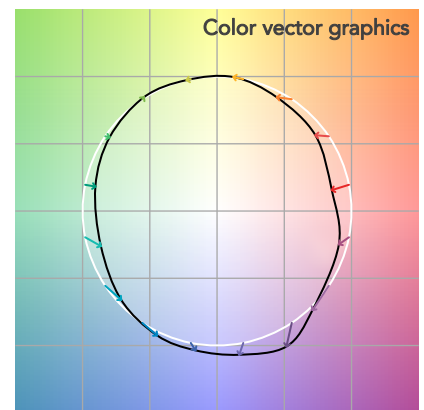
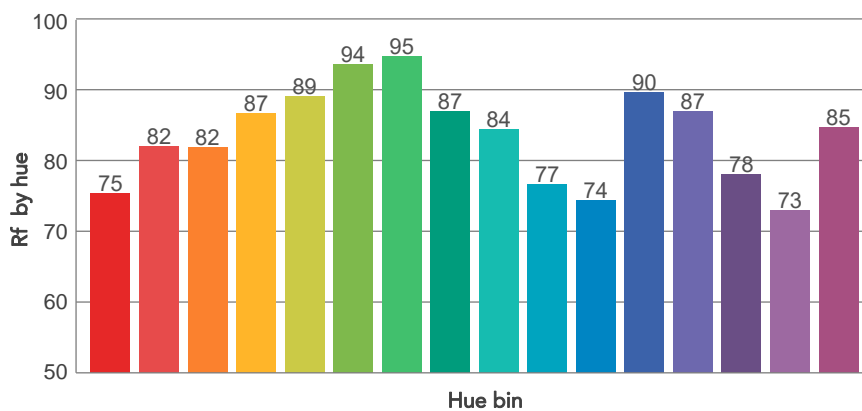
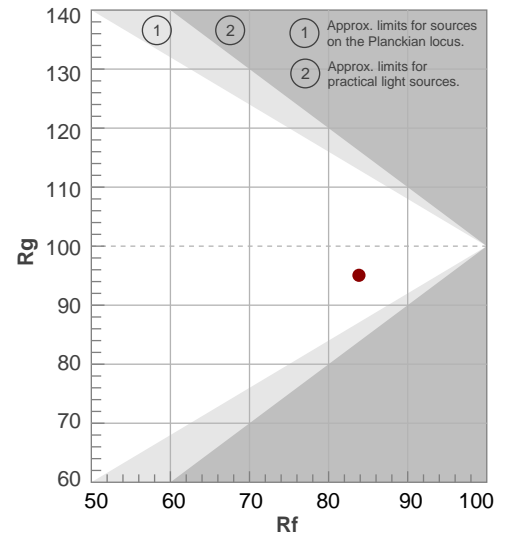
Rf 83,8

Fidelity index Rf

Rg 95,1

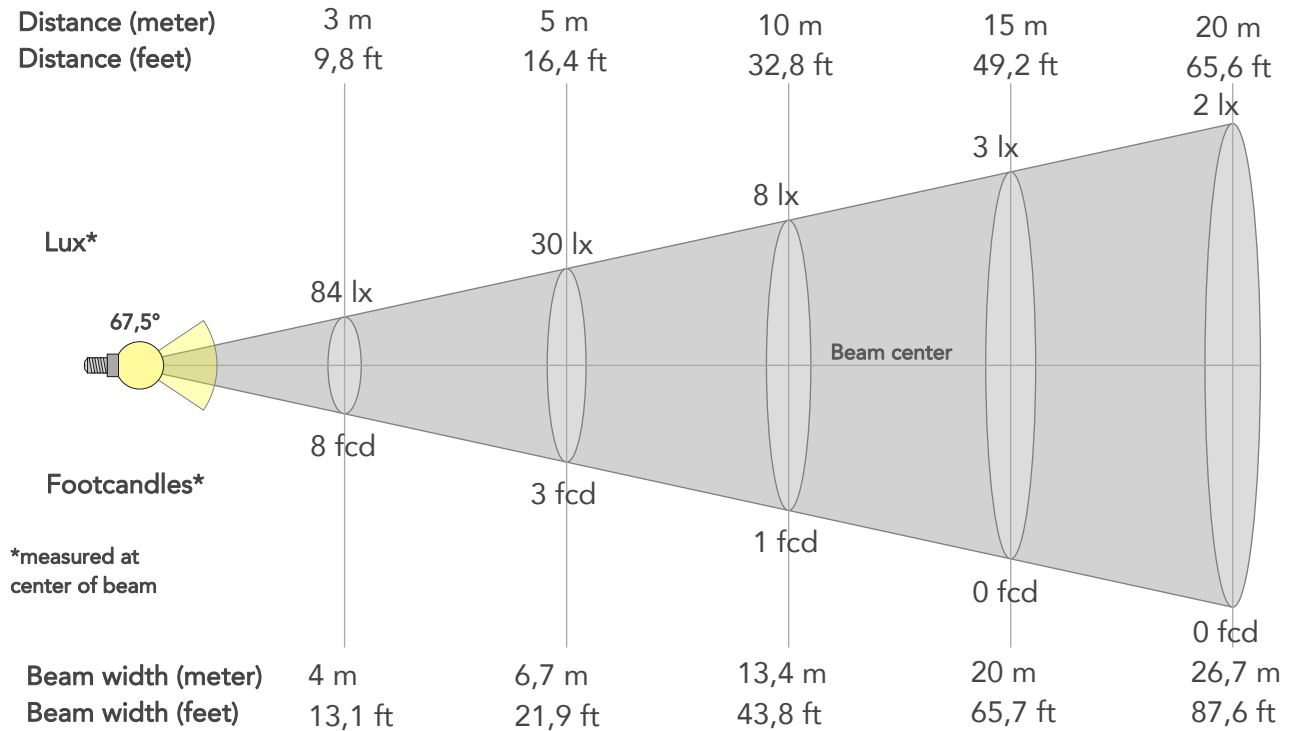
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	75	-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	77	-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%	-7%



BEAM DETAILS

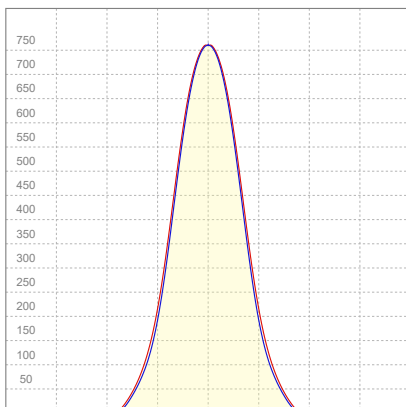
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
67,5°	119,7°	146,5°	93,7%	77,7%



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	760lx	190lx	84lx	48lx	30lx	14lx	8lx	3lx	2lx	1lx	1lx	0lx	0lx
Footcand.	71fcd	18fcd	8fcd	4fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,3m	2,7m	4m	5,3m	6,7m	10m	13,4m	20m	26,7m	33,4m	40,1m	53,4m	66,8m
Beam wid.	4,4ft	8,8ft	13,1ft	17,5ft	21,9ft	32,8ft	43,8ft	65,7ft	87,6ft	109,5ft	131,4ft	175,2ft	219ft

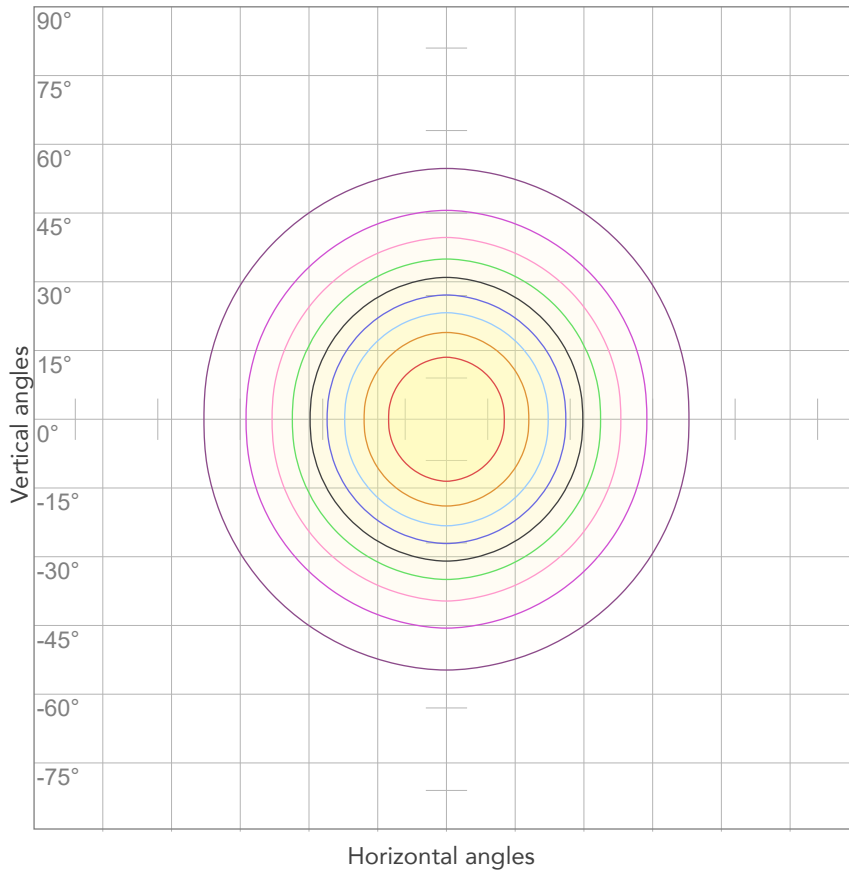
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,116A	22,8W	46lm/W

ISO CANDELA DIAGRAM



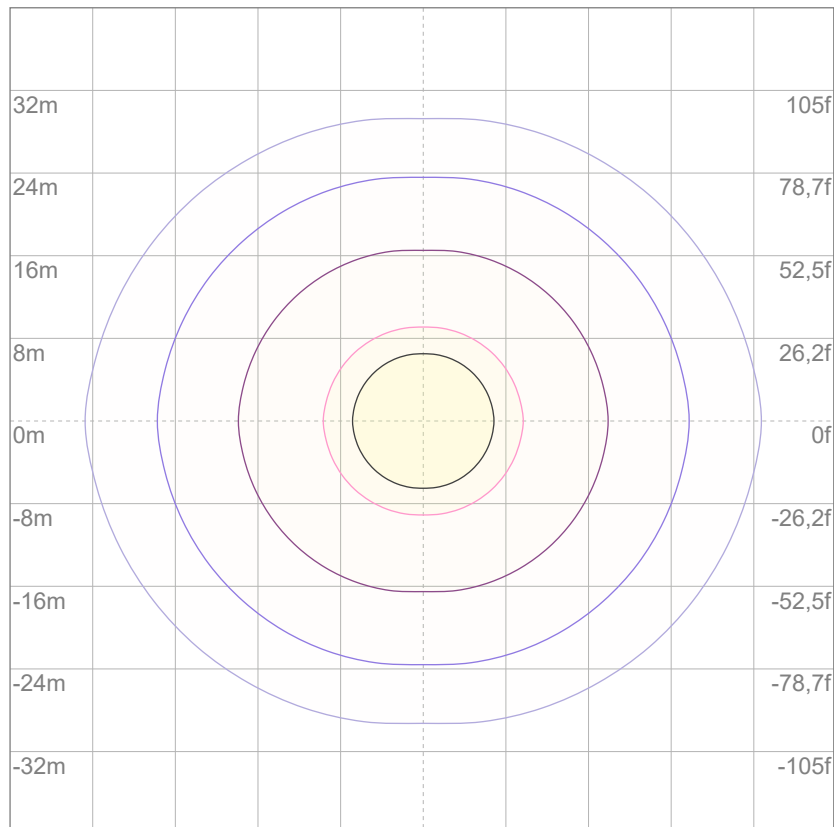
10%	76 cd
20%	152 cd
30%	228 cd
40%	304 cd
50%	380 cd
60%	456 cd
70%	532 cd
80%	608 cd

Conditions:

Number of c-planes: 4

Candela at center: 760 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,228 lx
5%	0,380 lx
10%	0,760 lx
30%	2,28 lx
50%	3,80 lx

Conditions:

Number of c-planes: 4

Lux at center: 7,60 lx

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

Total lumen output:

1332 lm

Peak candela output:

1502 cd

Light quality:

CRI: 83,5

Color temperature:

6914 K



PRODUCT NAME:

ARCSHINES9VW

MEASURAMENT CONDITIONS:

Beam angle:

15° + Filter 10°x60°

Target:

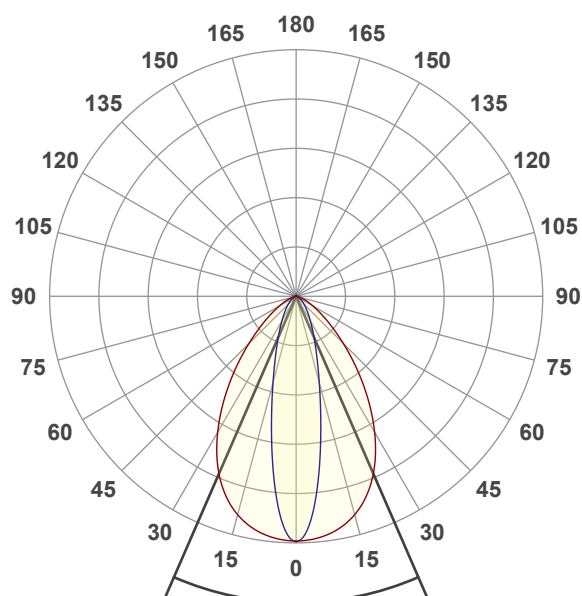
Cold White

Operator:

Paolo Carvone

Date and time:

08/09/2022 12:01:12

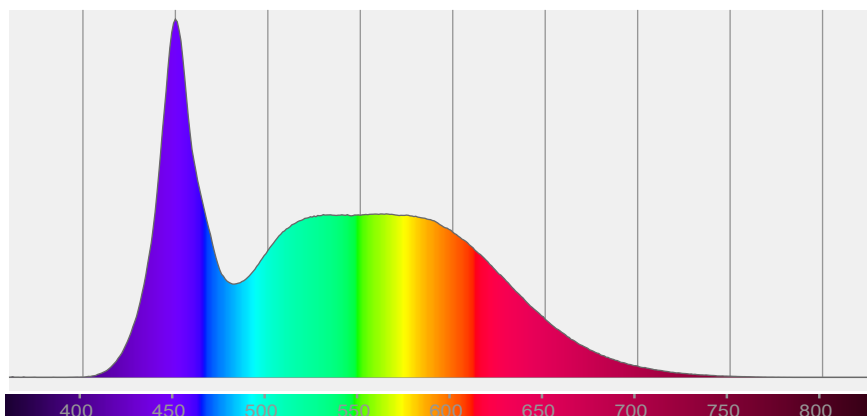


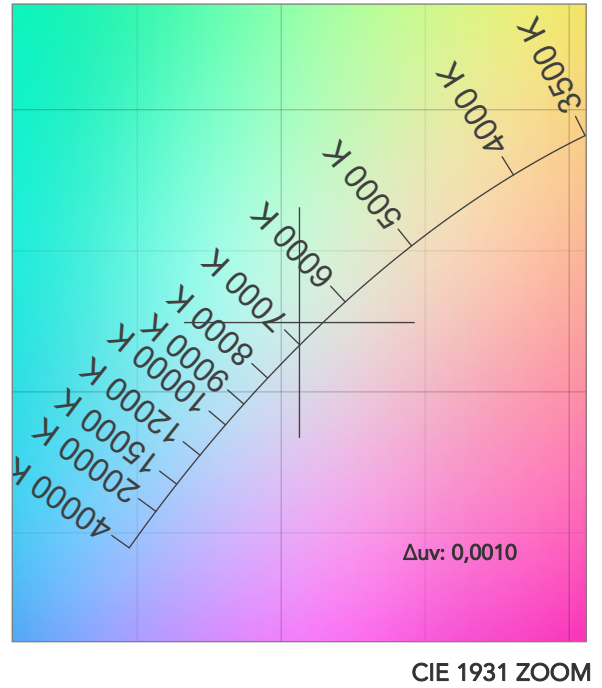
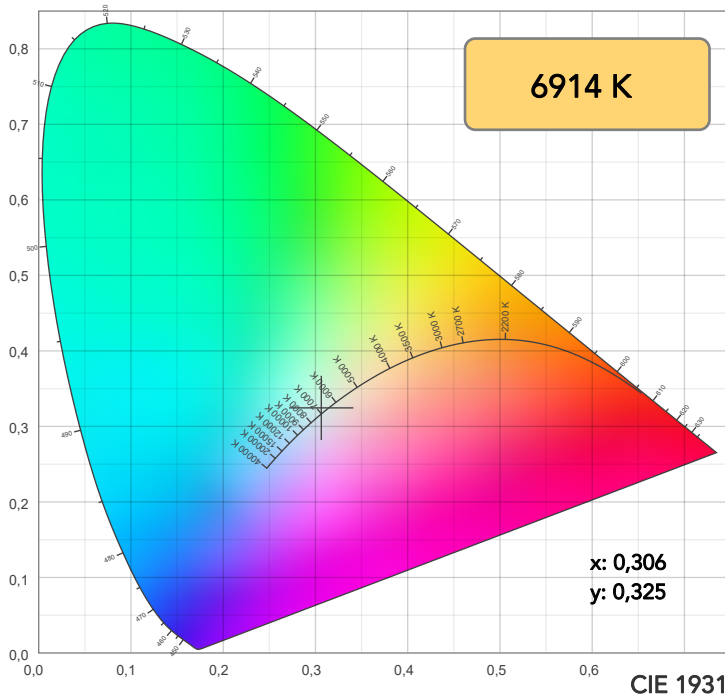
Beam angle 50%: 47°

Field angle 10%: 89,7°

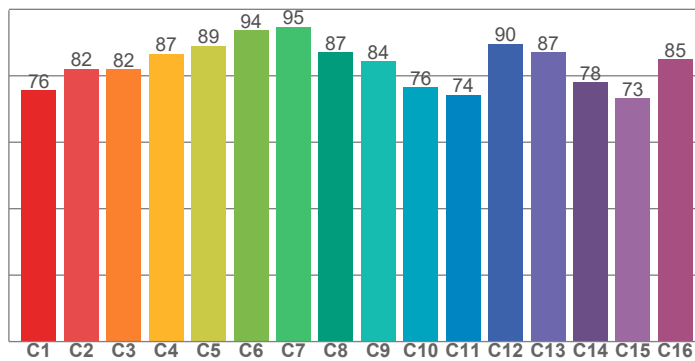
Cut off angle 2.5%: 124,8°

Spectra

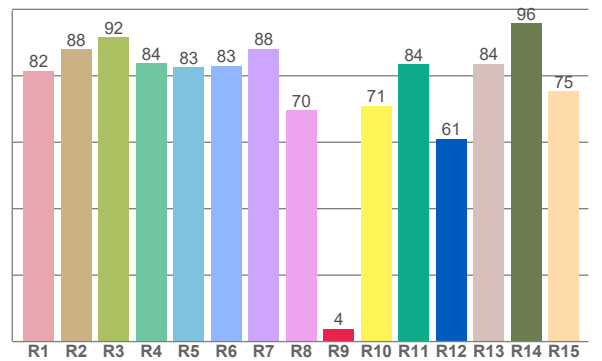




TM30: 83,9



CRI: 83,5 (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
81,5	87,9	91,6	83,7	82,5	83,0	88,2	69,7	3,8	70,9	83,5	61,0	83,6	95,8	75,4

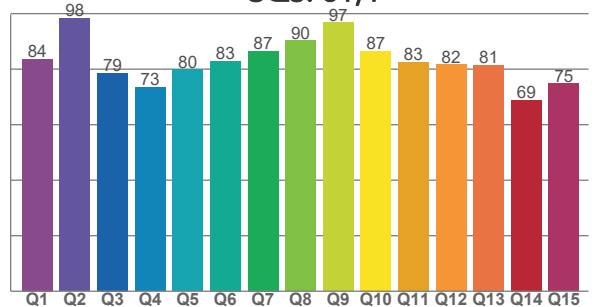
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
75,6	82,1	81,9	86,6	89,0	93,6	94,8	87,0	84,4	76,4	74,3	89,6	87,1	78,1	73,2	84,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
83,6	98,3	78,6	73,5	79,9	83,0	86,5	90,3	96,7	86,5	82,6	81,6	81,4	68,9	74,8

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
6914 K	83,5	3,8	83,9	95,1	81,4	70	0,306	0,325	0,0010

TM30 DETAILS

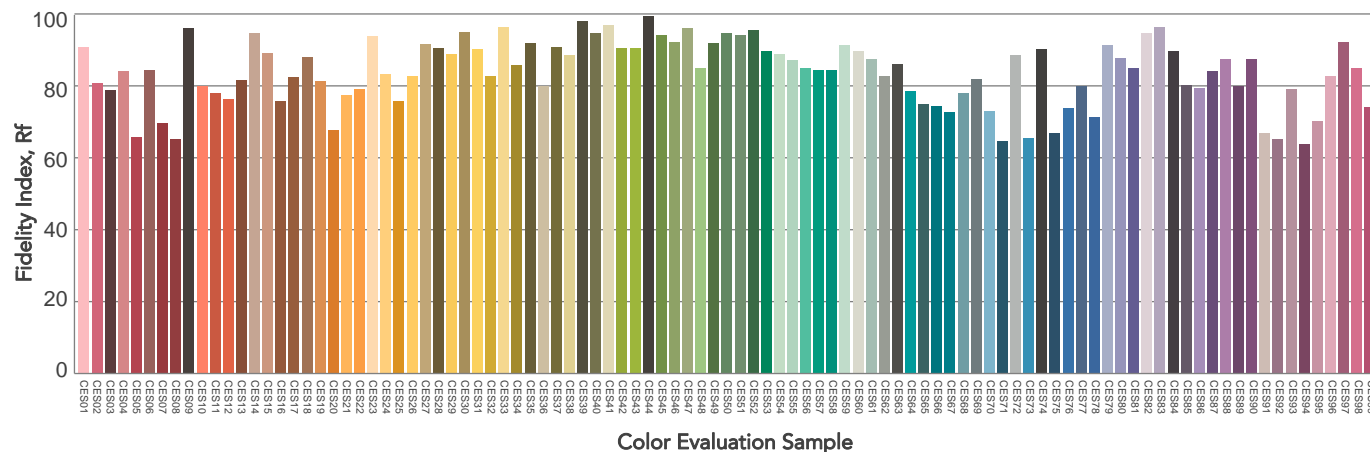
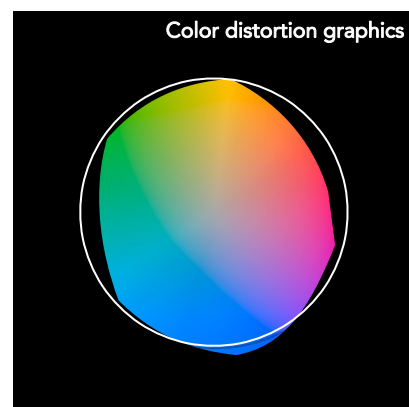
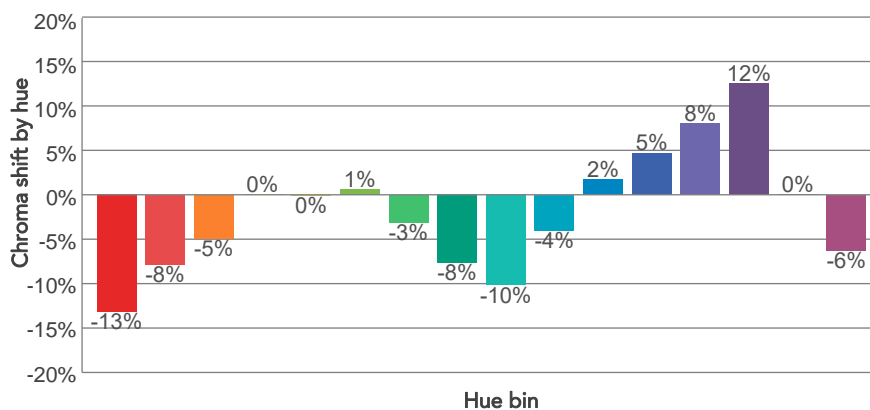
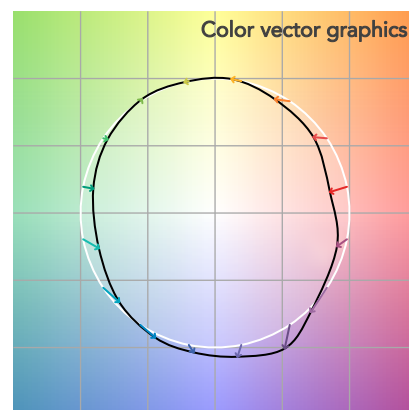
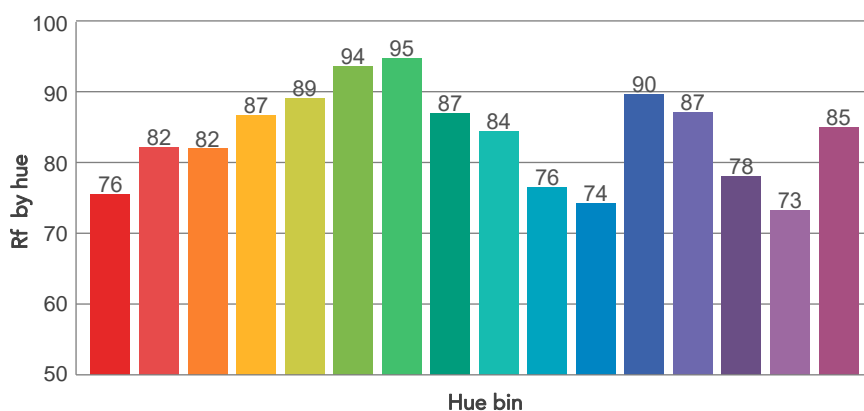
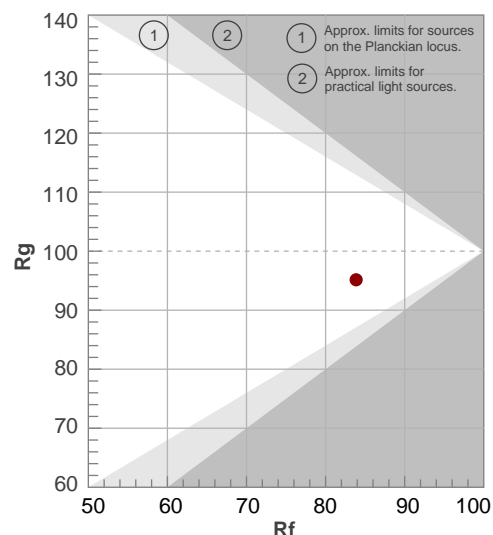
Rf 83,9

Fidelity index Rf

Rg 95,1

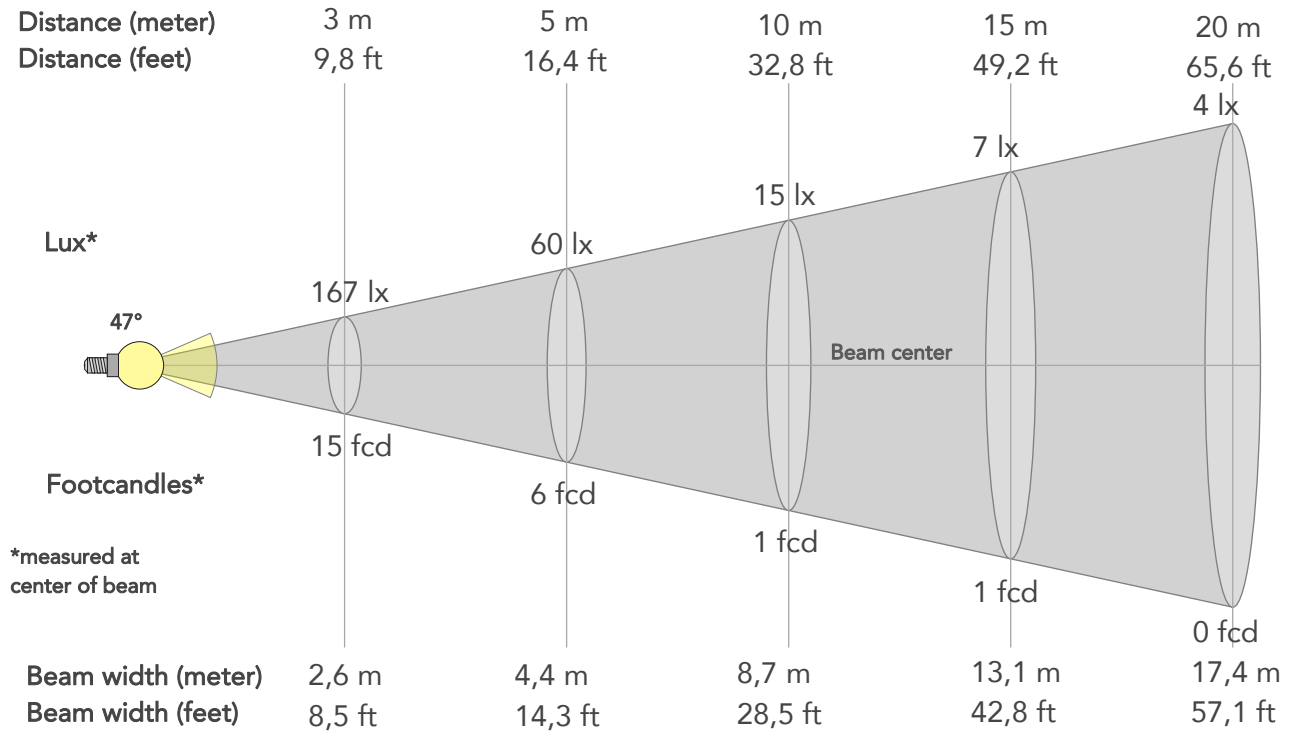
Gammut index

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



BEAM DETAILS

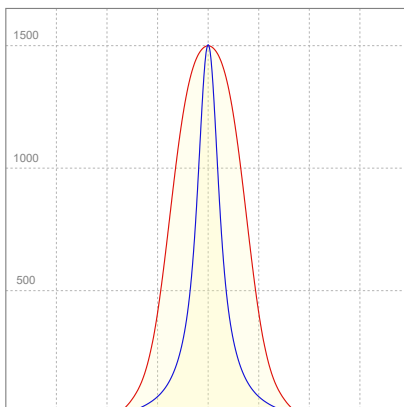
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
47°	89,7°	124,8°	95,8%	82,3%



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	1500lx	375lx	167lx	94lx	60lx	27lx	15lx	7lx	4lx	2lx	2lx	1lx	1lx
Footcand.	139fcd	35fcd	15fcd	9fcd	6fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,7m	2,6m	3,5m	4,4m	6,5m	8,7m	13,1m	17,4m	21,8m	26,1m	34,8m	43,5m
Beam wid.	2,9ft	5,7ft	8,5ft	11,4ft	14,3ft	21,4ft	28,5ft	42,8ft	57,1ft	71,4ft	85,6ft	114,2ft	142,7ft

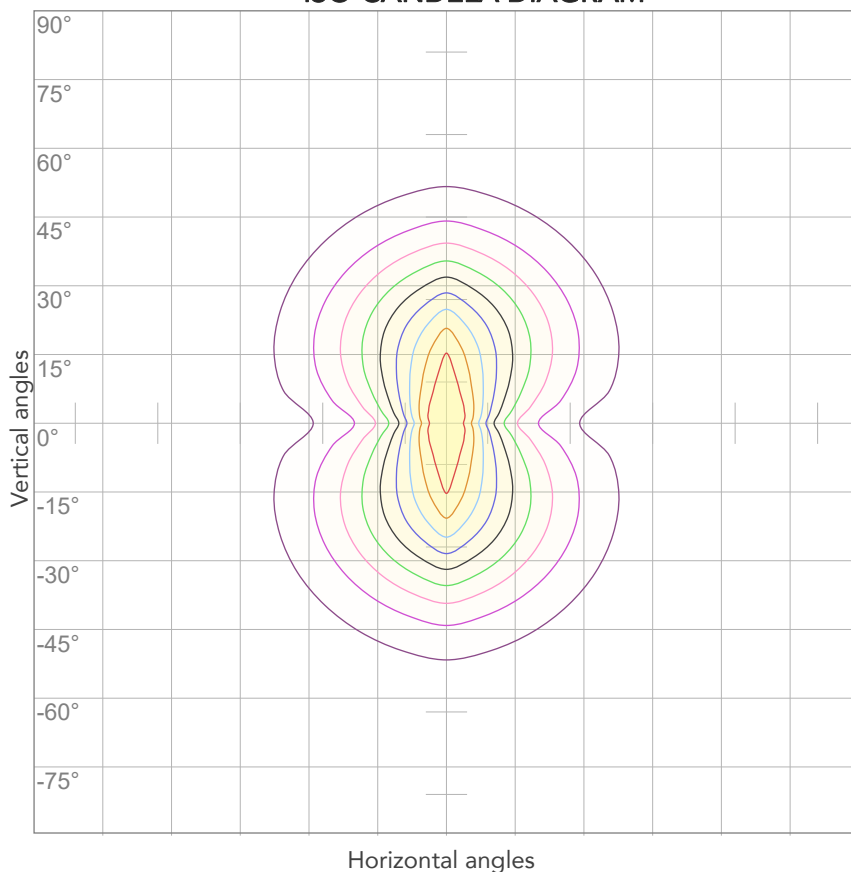
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,116A	22,8W	58lm/W

ISO CANDELA DIAGRAM



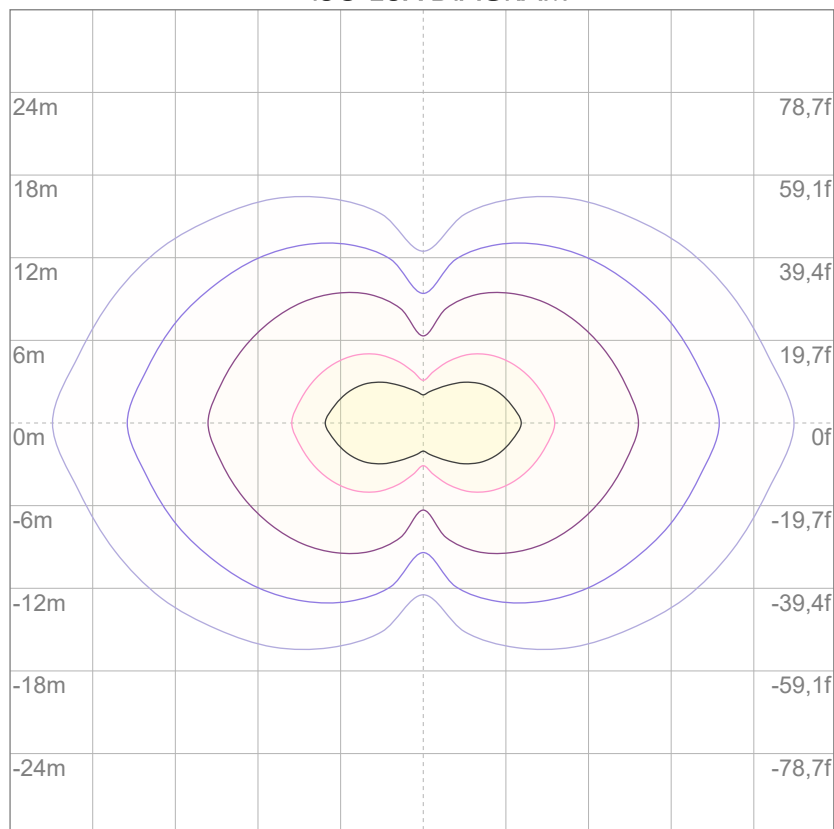
10%	150 cd
20%	300 cd
30%	450 cd
40%	600 cd
50%	750 cd
60%	900 cd
70%	1050 cd
80%	1200 cd

Conditions:

Number of c-planes: 4

Candela at center: 1500 cd

ISO LUX DIAGRAM



3%	0,450 lx
5%	0,750 lx
10%	1,50 lx
30%	4,50 lx
50%	7,50 lx

Conditions:

Number of c-planes: 4

Lux at center: 15,0 lx

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

Total lumen output:

1137 lm

Peak candela output:

989 cd

Light quality:

CRI: 83,4

Color temperature:

6801 K



PRODUCT NAME:

ARCSHINES9VW

MEASURAMENT CONDITIONS:

Beam angle:

15° + Filter 30°x60°

Target:

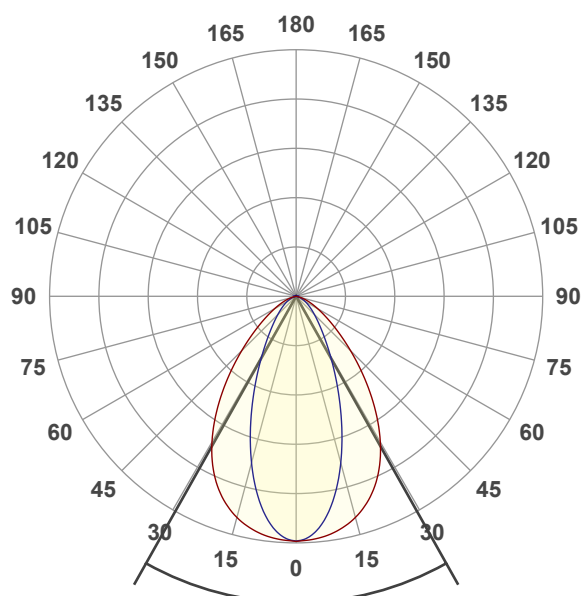
Cold White

Operator:

Paolo Carvone

Date and time:

08/09/2022 10:47:42

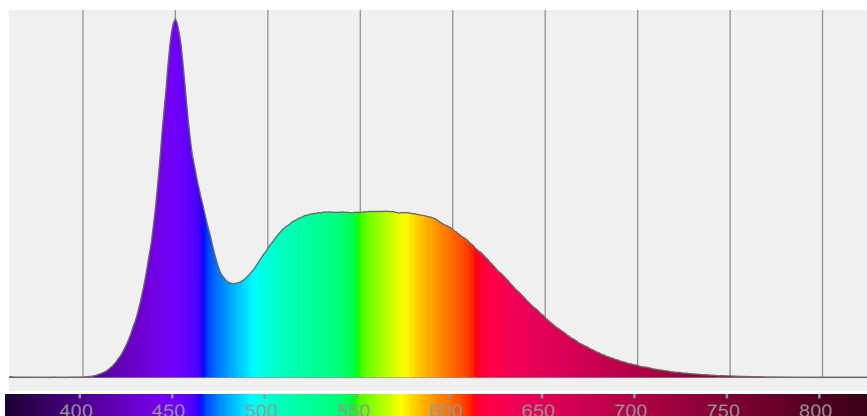


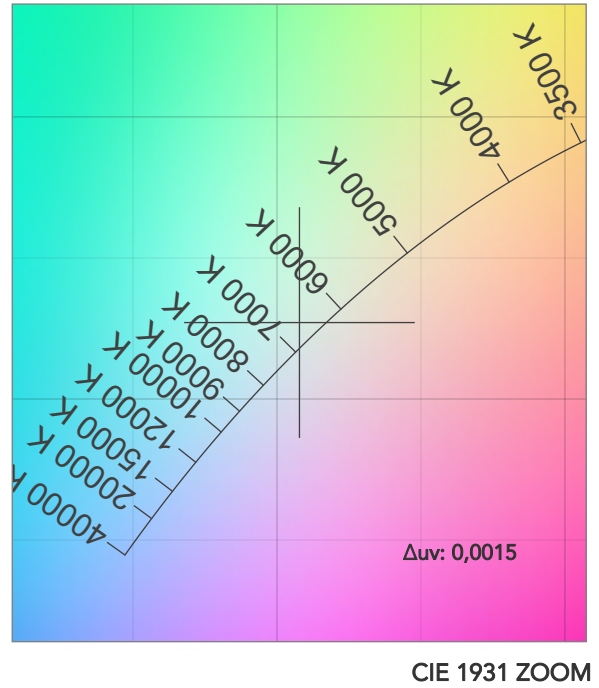
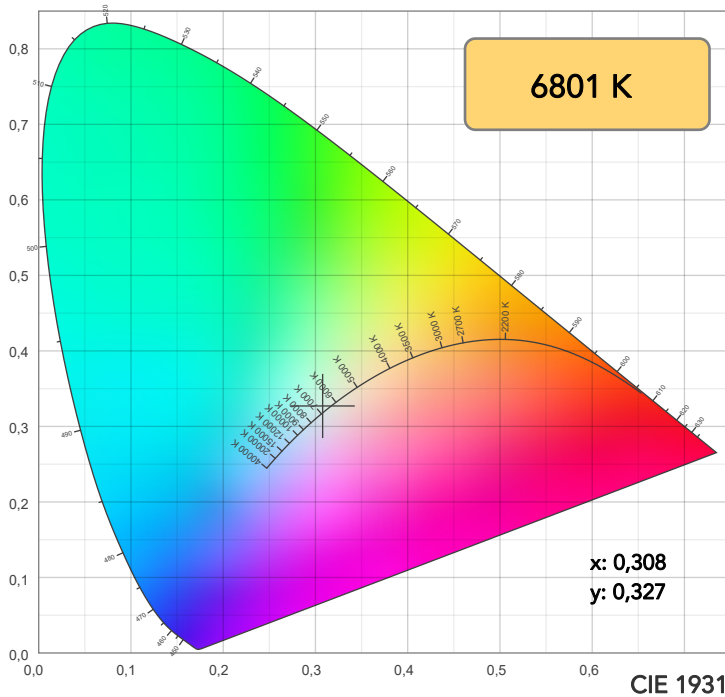
Beam angle 50%: 58,7°

Field angle 10%: 106,3°

Cut off angle 2.5%: 139,8°

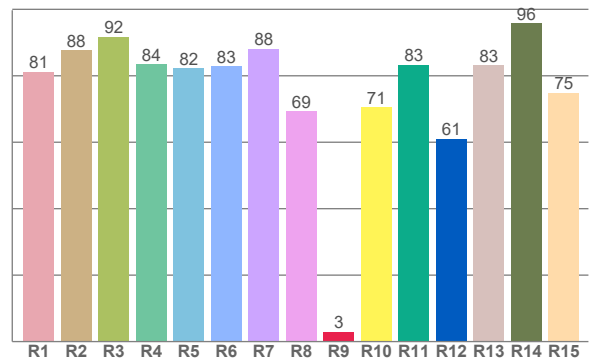
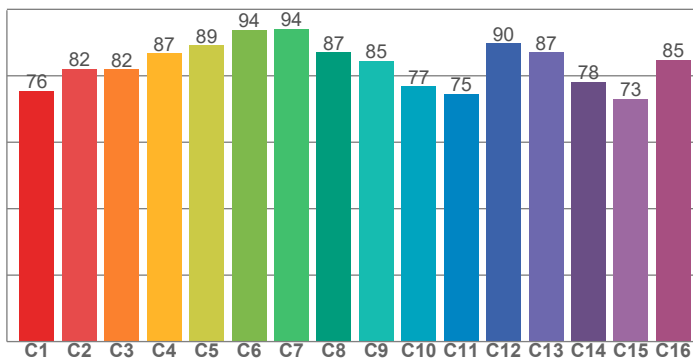
Spectra





TM30: 83,9

CRI: 83,4 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
81,2	87,7	91,7	83,6	82,3	82,9	88,1	69,3	2,9	70,6	83,3	61,0	83,2	95,8	74,9

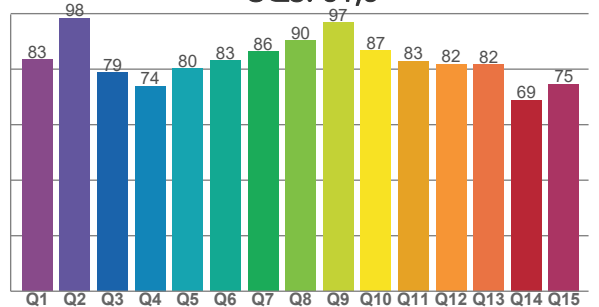
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
75,5	82,1	81,9	86,7	89,1	93,8	94,1	87,0	84,6	76,8	74,5	89,7	87,1	78,1	73,1	84,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
83,4	98,3	78,8	74,0	80,2	83,1	86,4	90,2	96,8	86,7	82,9	81,9	81,6	68,8	74,6

CQS: 81,5



COLOR PARAMETERS

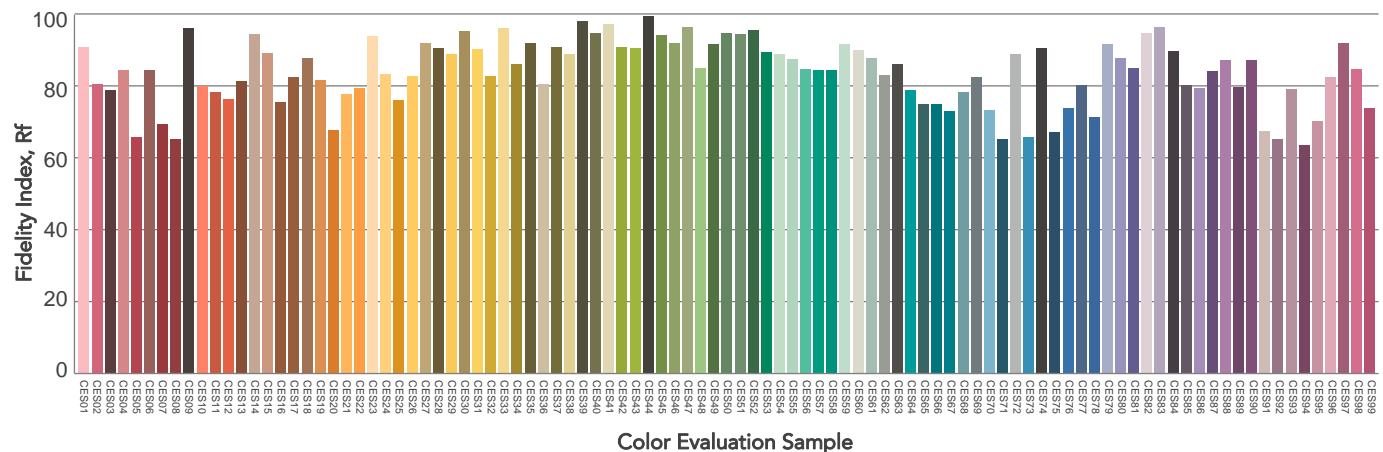
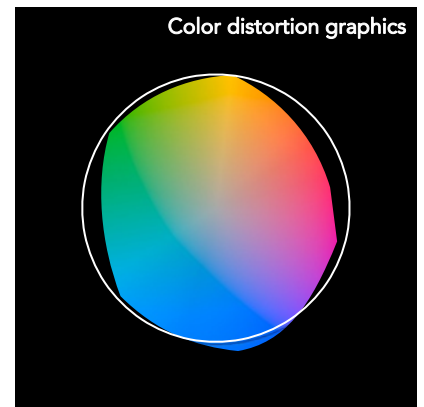
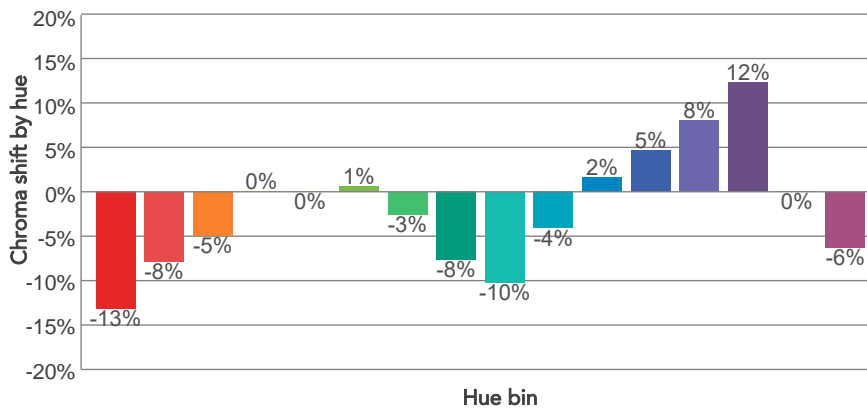
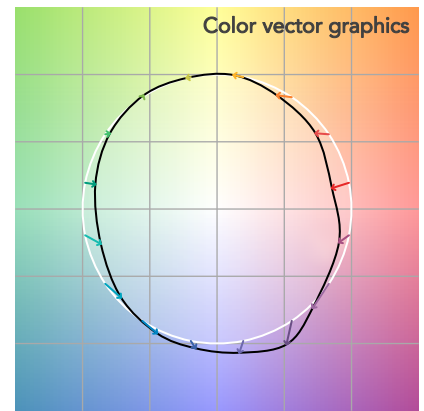
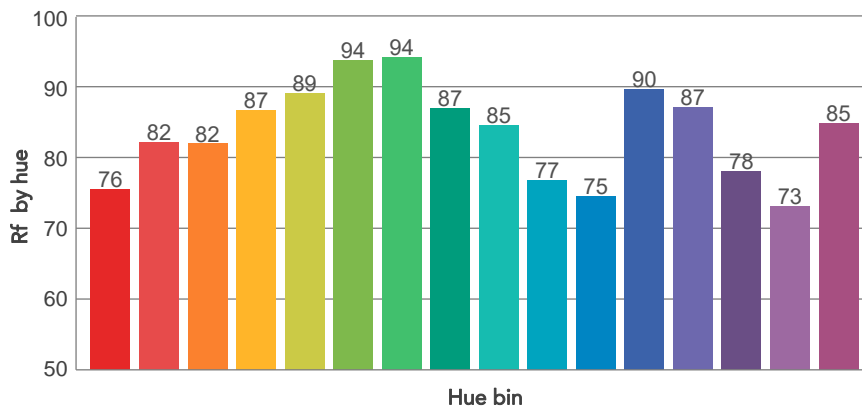
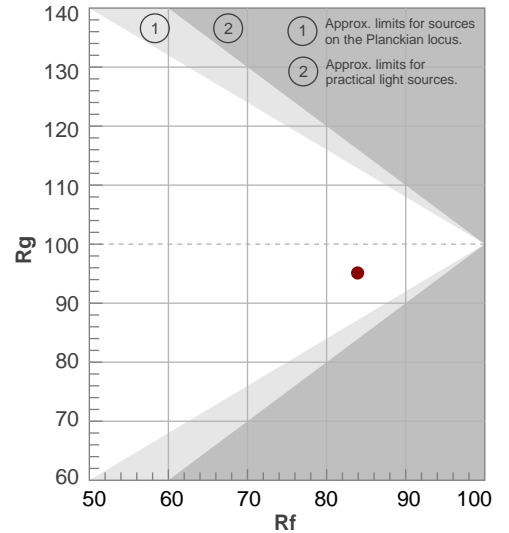
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6801 K	83,4	2,9	83,9	95,1	81,5	71	0,308	0,327	0,0015

TM30 DETAILS

Rf 83,9
Fidelity index Rf

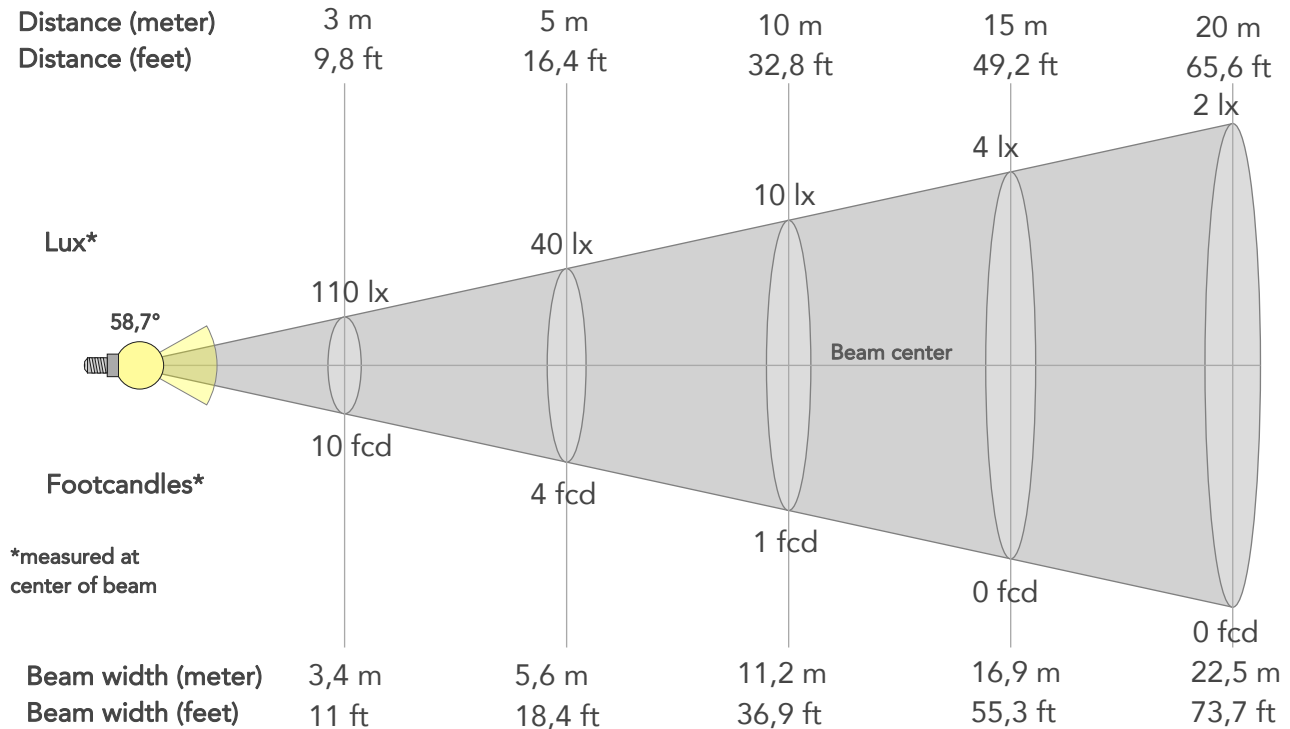
Rg 95,1
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	76	-13%	-1%
2	82	-8%	6%
3	82	-5%	10%
4	87	0%	8%
5	89	0%	3%
6	94	1%	-1%
7	94	-3%	-2%
8	87	-8%	0%
9	85	-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%	-7%



BEAM DETAILS

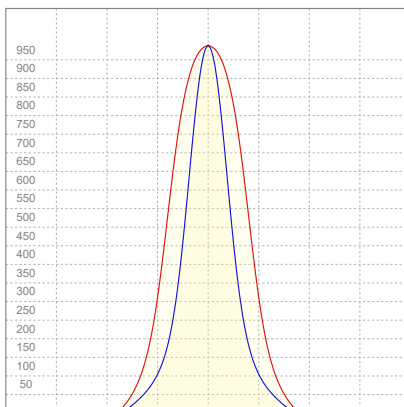
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
58,7°	106,3°	139,8°	94,6%	80,0%



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	988lx	247lx	110lx	62lx	40lx	18lx	10lx	4lx	2lx	2lx	1lx	1lx	0lx
Footcand.	92fcd	23fcd	10fcd	6fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,2m	3,4m	4,5m	5,6m	8,4m	11,2m	16,9m	22,5m	28,1m	33,7m	45m	56,2m
Beam wid.	3,7ft	7,4ft	11ft	14,7ft	18,4ft	27,7ft	36,9ft	55,3ft	73,7ft	92,2ft	110,6ft	147,5ft	184,3ft

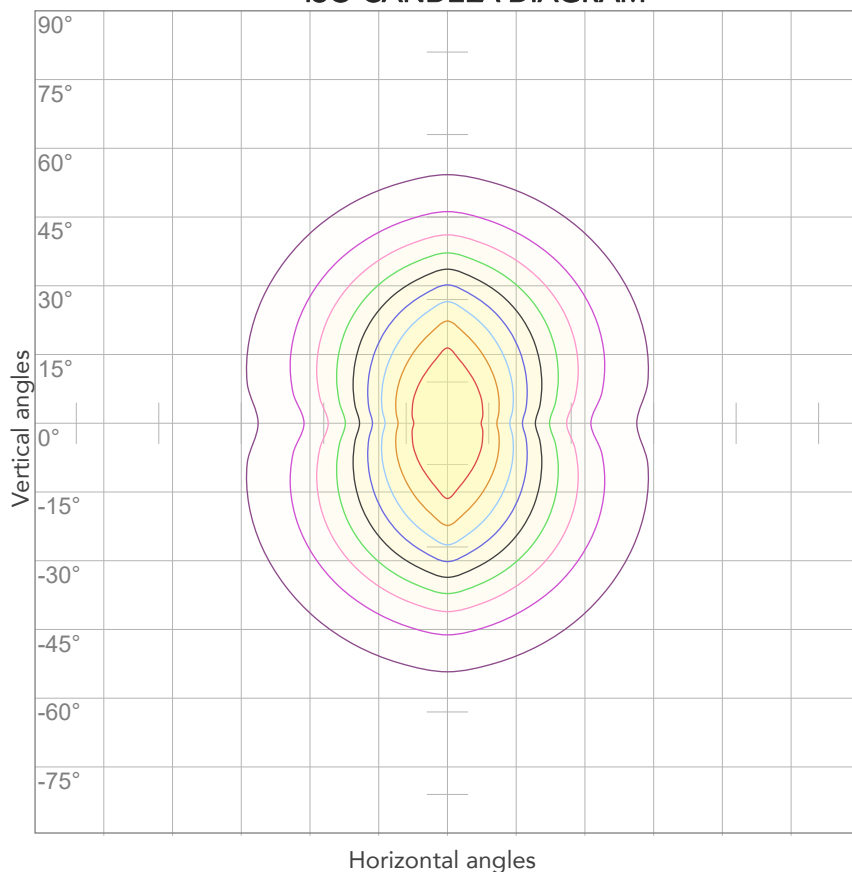
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
222V	0,117A	23,0W	50lm/W

ISO CANDELA DIAGRAM



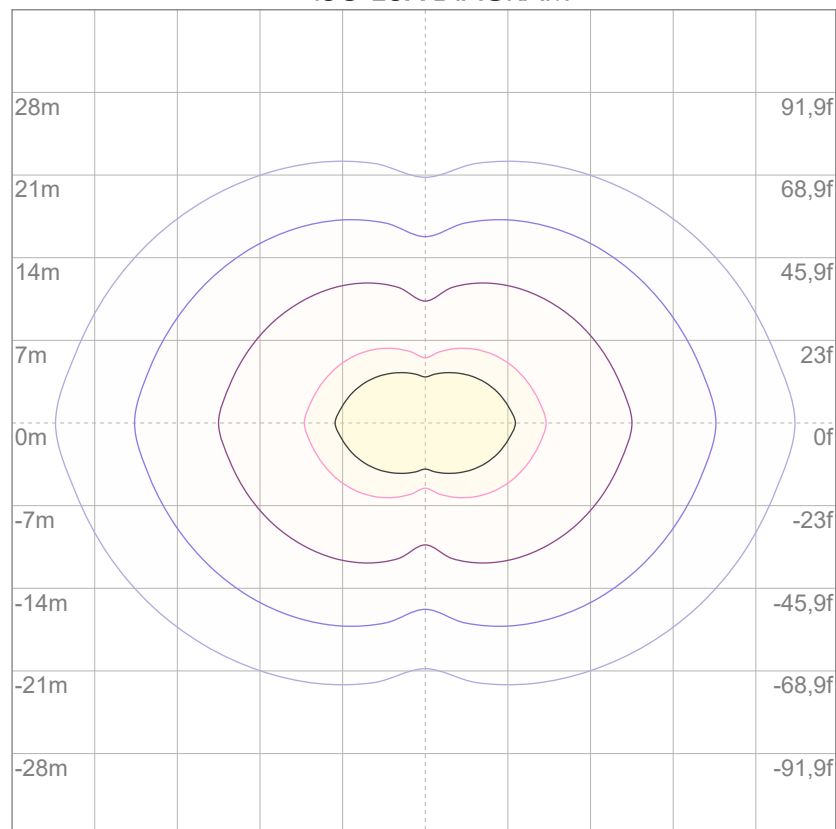
10%	99 cd
20%	198 cd
30%	296 cd
40%	395 cd
50%	494 cd
60%	593 cd
70%	692 cd
80%	790 cd

Conditions:

Number of c-planes: 4

Candela at center: 988 cd

ISO LUX DIAGRAM



3%	0,296 lx
5%	0,494 lx
10%	0,988 lx
30%	2,96 lx
50%	4,94 lx

Conditions:

Number of c-planes: 4

Lux at center: 9,88 lx

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