

Photometric Test Report



ARCSHINES18VW

18 x 2 W IP66 Variable White
architectural linear fixture, 100 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:

2236 lm

Peak candela output:

9497 cd

Light quality:

CRI: 85,5

Color temperature:

4313 K



PRODUCT NAME:

ARCSHINES18VW

MEASURAMENT CONDITIONS:

Beam angle:

15°

Target:

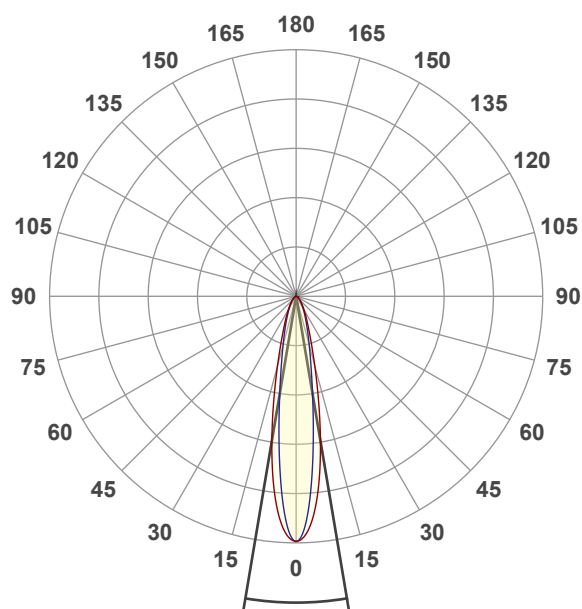
Full on

Operator:

Paolo Carvone

Date and time:

08/09/2022 12:38:59

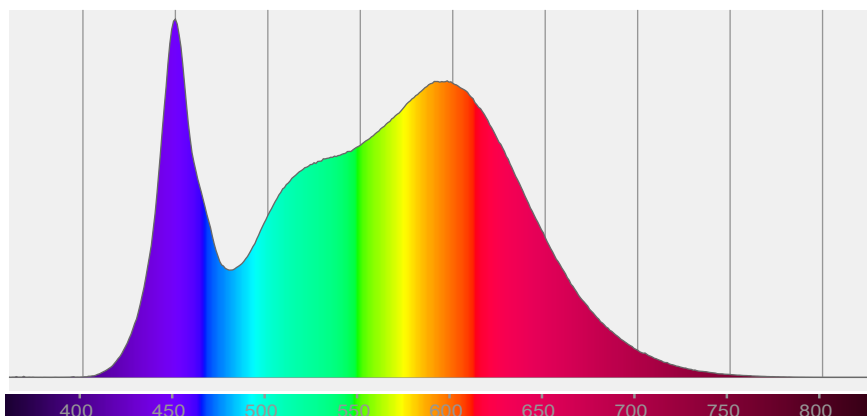


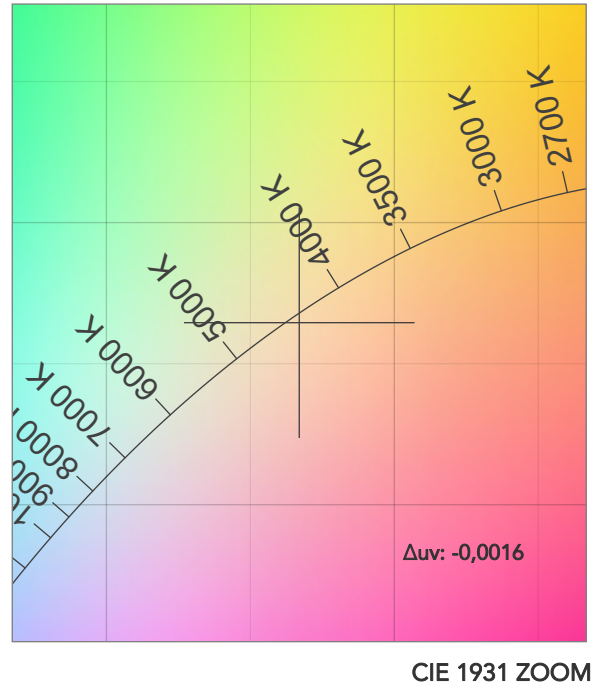
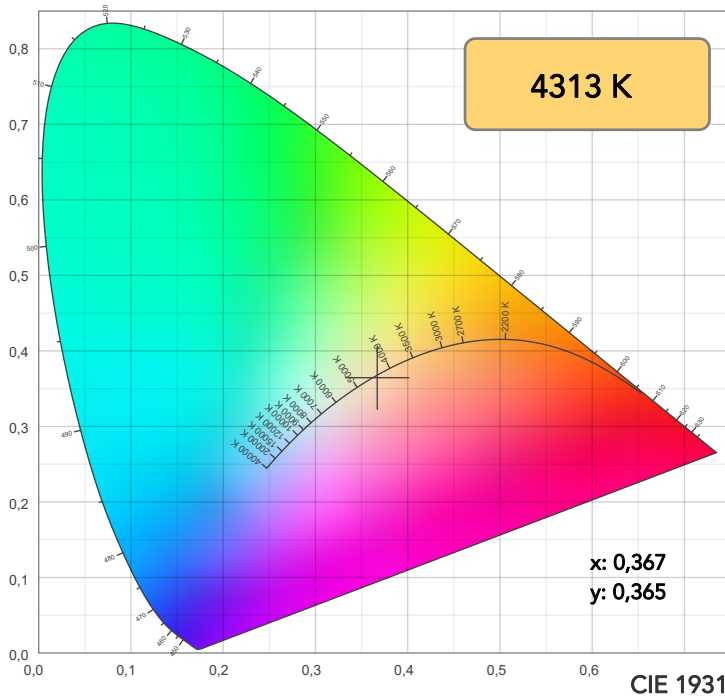
Beam angle 50%: 19,1°

Field angle 10%: 47,5°

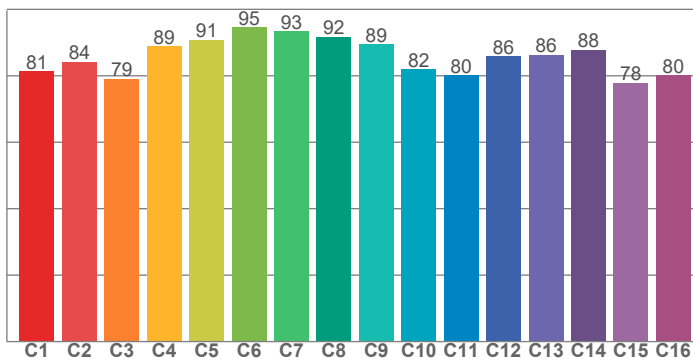
Cut off angle 2.5%: 84,4°

Spectra

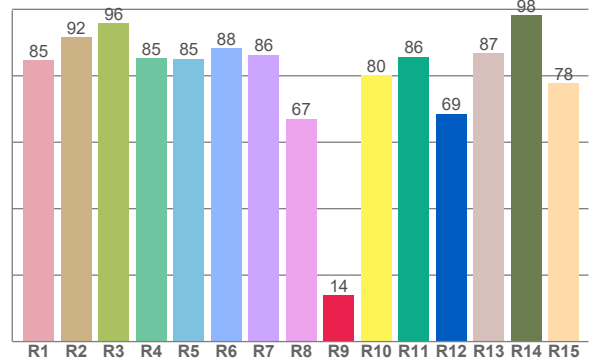




TM30: 85,6



CRI: 85,5 (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
84,6	91,7	95,9	85,4	85,1	88,2	86,4	67,1	14,0	80,1	85,7	68,5	86,8	98,2	77,8

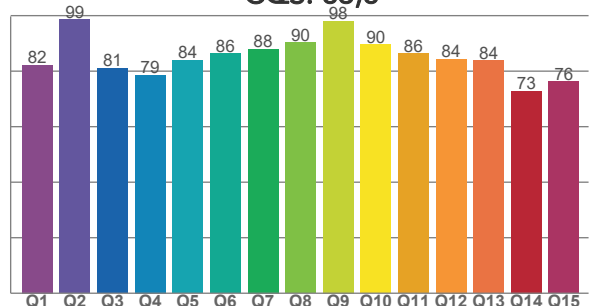
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81,4	84,2	79,0	88,8	90,8	94,6	93,4	91,8	89,4	82,0	80,1	85,8	86,3	87,8	77,8	80,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
82,3	98,6	81,0	78,6	83,9	86,4	88,0	90,2	98,1	89,6	86,3	84,4	83,8	72,9	76,3

CQS: 83,8



COLOR PARAMETERS

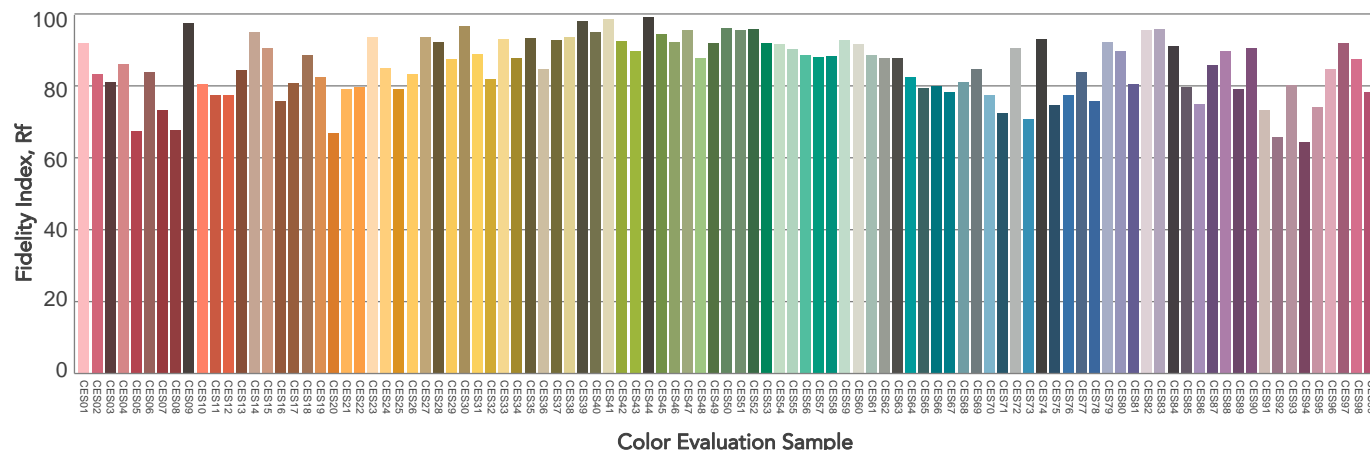
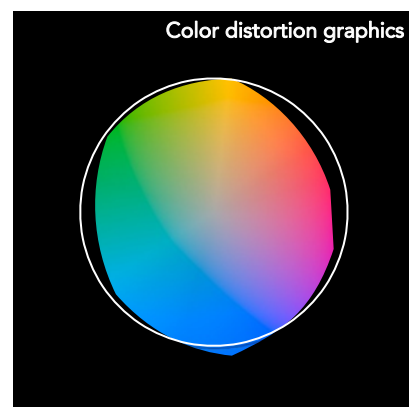
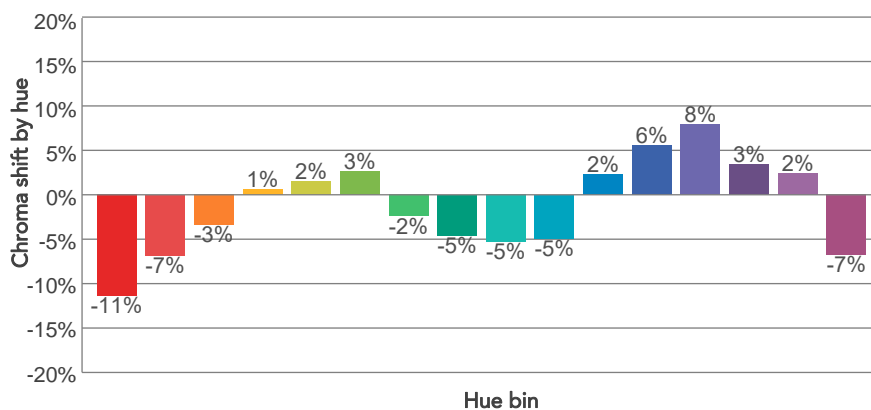
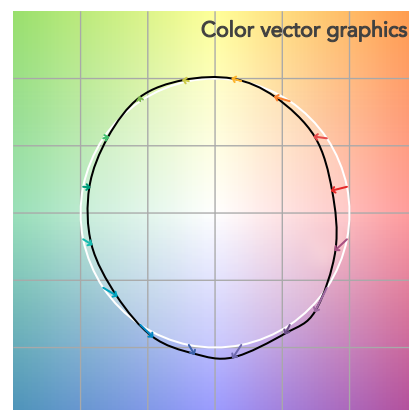
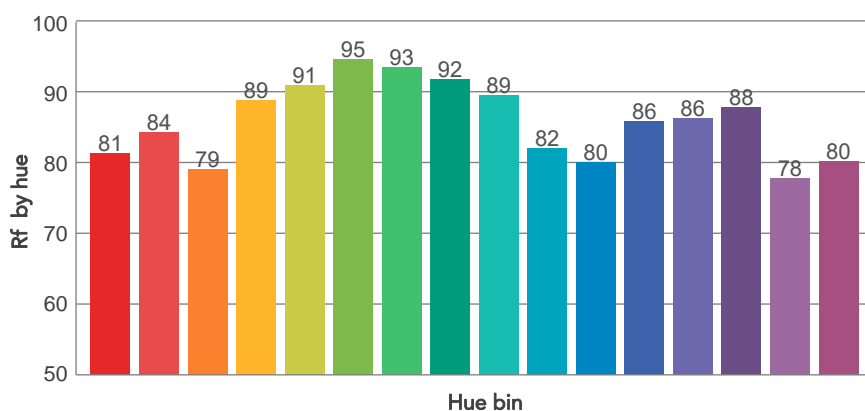
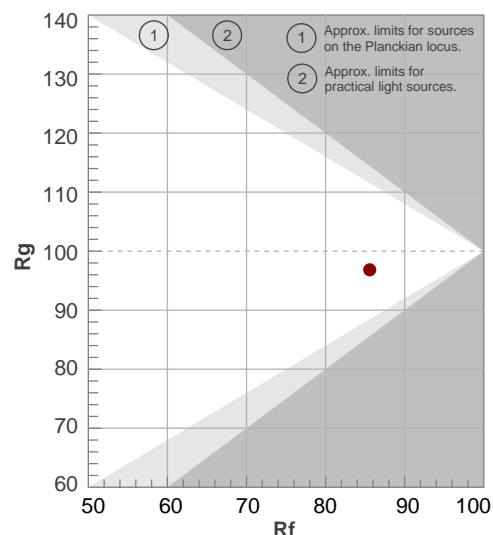
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4313 K	85,5	14,0	85,6	96,8	83,8	70	0,367	0,365	-0,0016

TM30 DETAILS

Rf 85,6
Fidelity index Rf

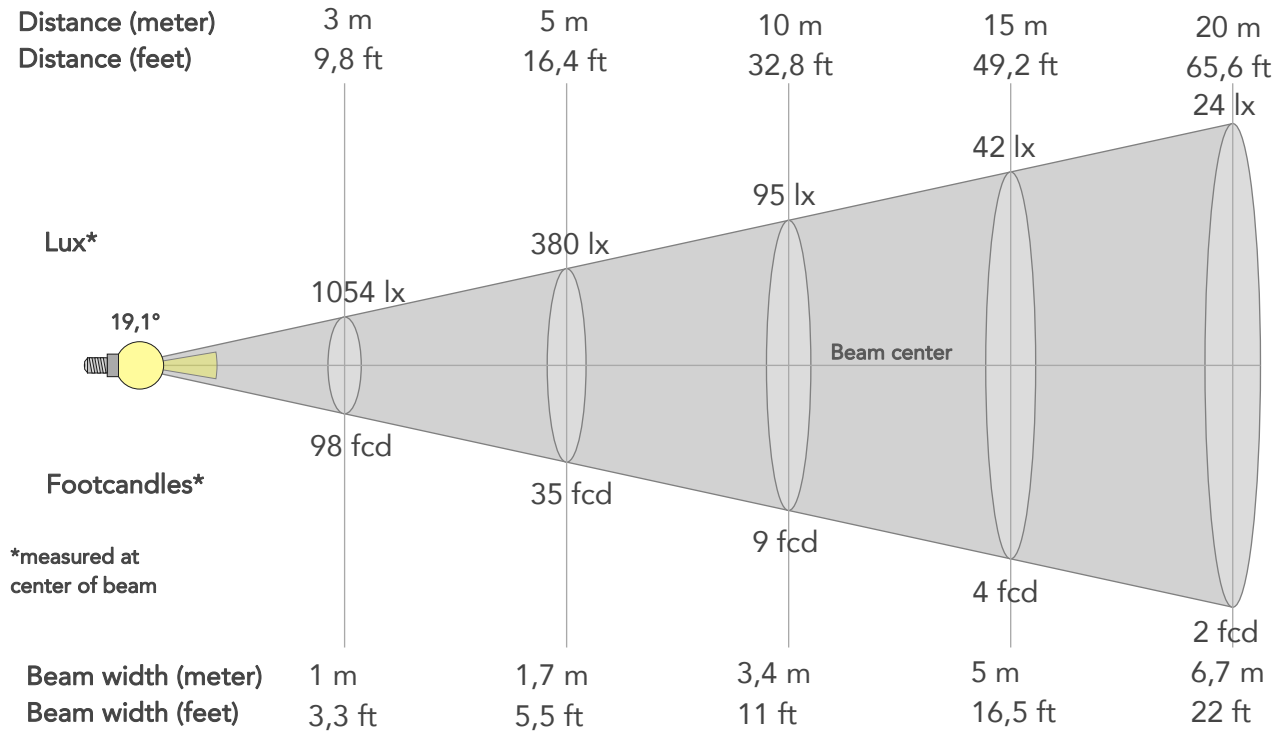
Rg 96,8
Gammut index

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	95	3%	-1%
7	93	-2%	-3%
8	92	-5%	-1%
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	78	2%	-19%
16	80	-7%	-10%



BEAM DETAILS

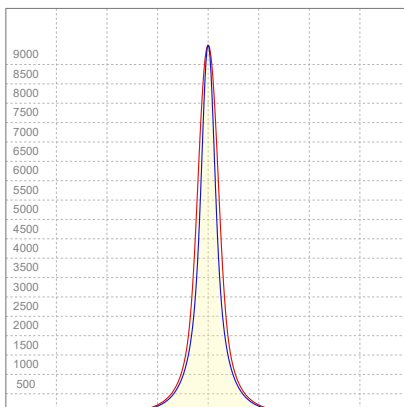
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
19,1°	47,5°	84,4°	98,3%	91,2%



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	9489lx	2372lx	1054lx	593lx	380lx	169lx	95lx	42lx	24lx	15lx	11lx	6lx	4lx
Footcand.	882fcd	220fcd	98fcd	55fcd	35fcd	16fcd	9fcd	4fcd	2fcd	1fcd	1fcd	1fcd	0fcd
Beam wid.	0,3m	0,7m	1m	1,3m	1,7m	2,5m	3,4m	5m	6,7m	8,4m	10,1m	13,4m	16,8m
Beam wid.	1,1ft	2,2ft	3,3ft	4,4ft	5,5ft	8,3ft	11ft	16,5ft	22ft	27,6ft	33,1ft	44,1ft	55,1ft

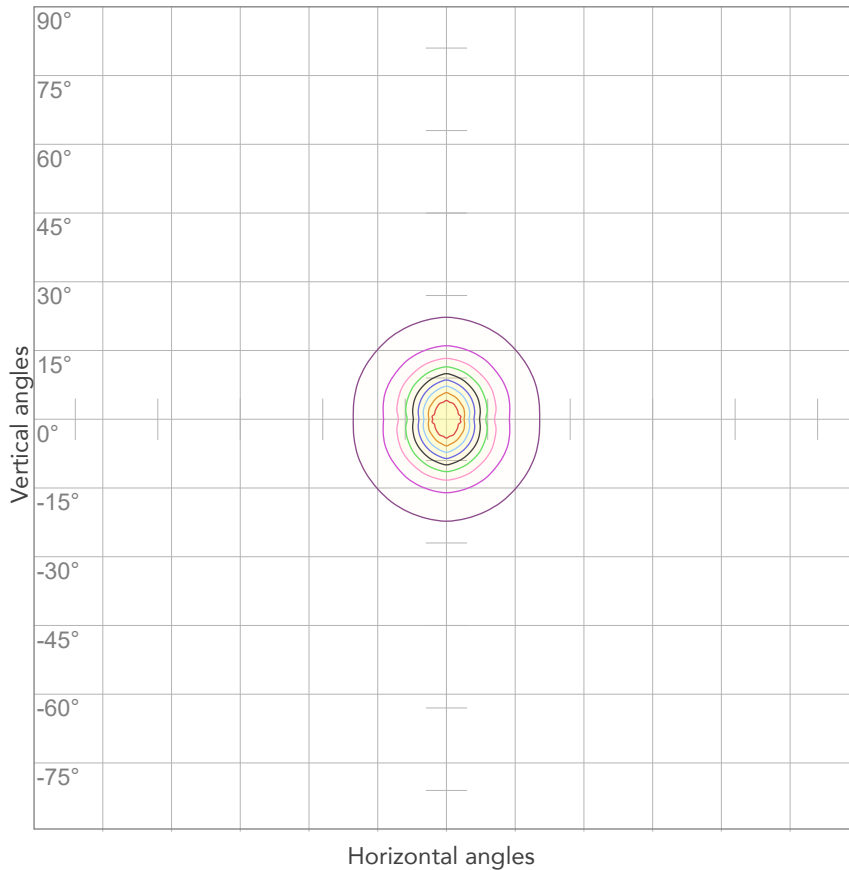
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,203A	43,7W	51lm/W

ISO CANDELA DIAGRAM



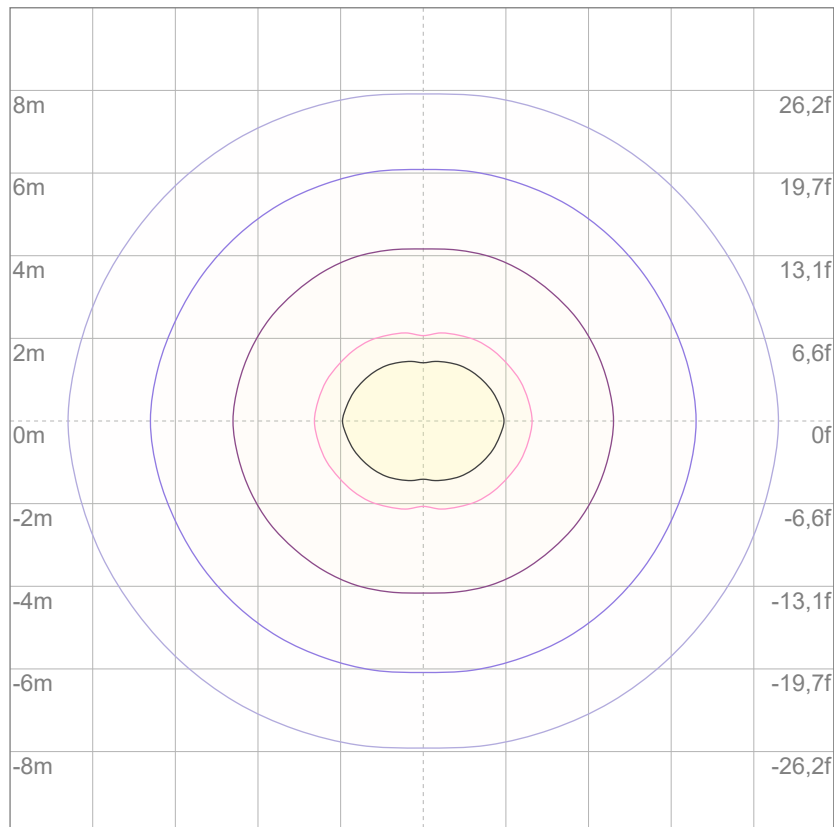
10%	949 cd
20%	1898 cd
30%	2847 cd
40%	3795 cd
50%	4744 cd
60%	5693 cd
70%	6642 cd
80%	7591 cd

Conditions:

Number of c-planes: 4

Candela at center: 9489 cd

ISO LUX DIAGRAM



3%	2,85 lx
5%	4,74 lx
10%	9,49 lx
30%	28,5 lx
50%	47,4 lx

Conditions:

Number of c-planes: 4

Lux at center: 94,9 lx

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

Total lumen output:

2076 lm

Peak candela output:

3844 cd

Light quality:

CRI: 85,7

Color temperature:

4314 K



PRODUCT NAME:

ARCSHINES18VW

MEASURAMENT CONDITIONS:

Beam angle:

15°+ Filter 20°

Target:

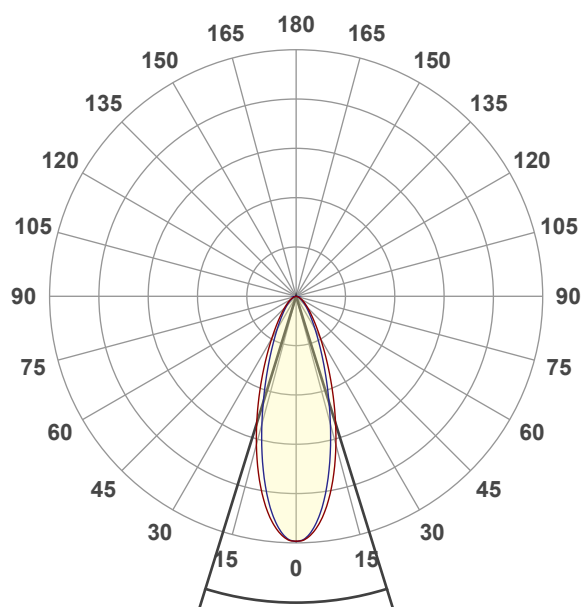
Full on

Operator:

Paolo Carvone

Date and time:

08/09/2022 12:51:14

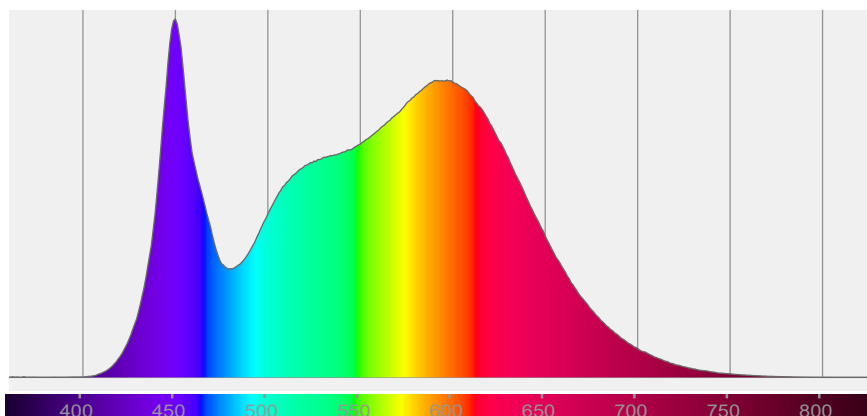


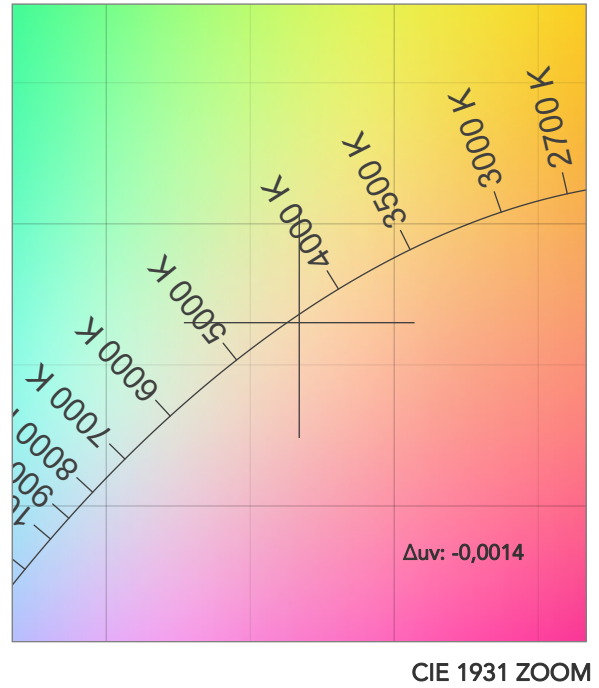
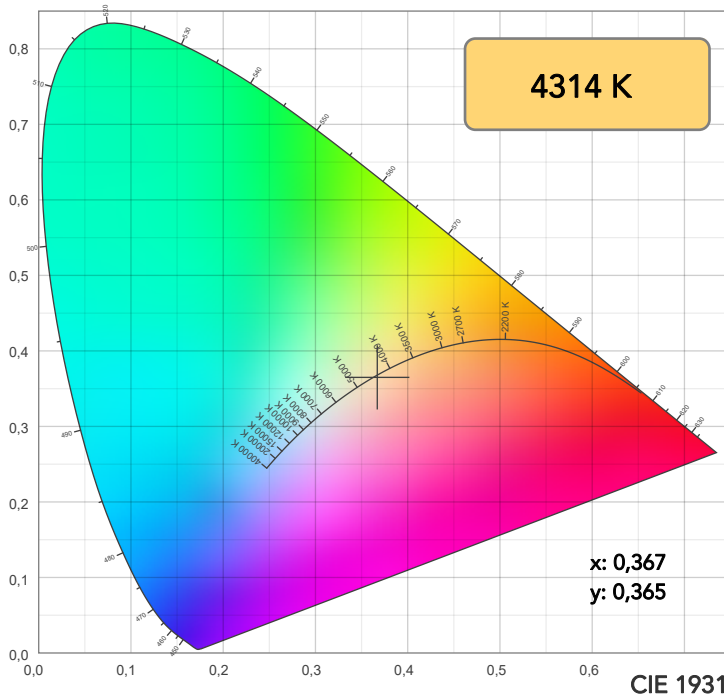
Beam angle 50%: 34,5°

Field angle 10%: 74,8°

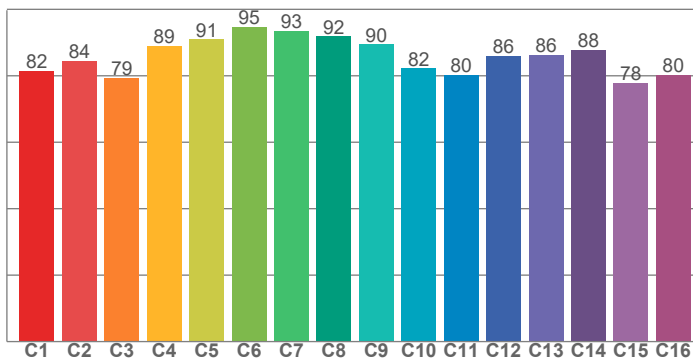
Cut off angle 2.5%: 117,1°

Spectra

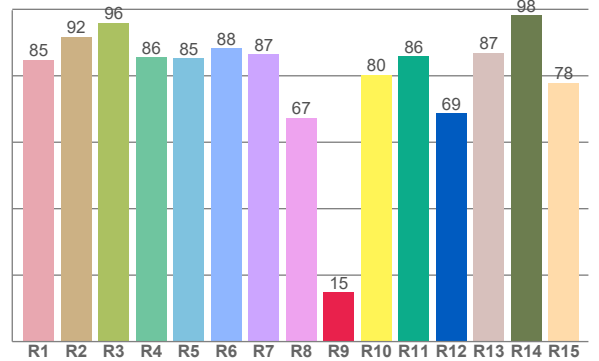




TM30: 85,8



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
84,8	91,8	95,9	85,6	85,2	88,3	86,5	67,4	14,7	80,3	86,0	68,7	86,9	98,2	77,9

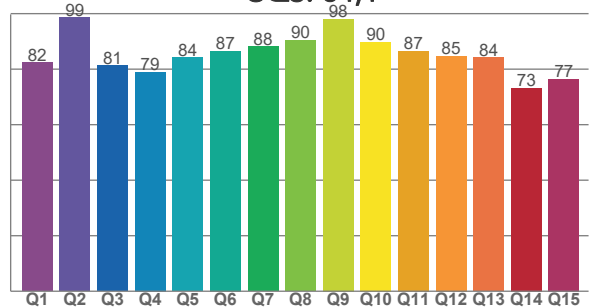
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81,5	84,5	79,4	89,1	91,0	94,7	93,5	91,9	89,5	82,2	80,3	86,0	86,3	87,9	77,9	80,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
82,4	98,6	81,3	79,0	84,2	86,6	88,1	90,4	98,1	89,8	86,6	84,8	84,1	73,2	76,5

CQS: 84,1



COLOR PARAMETERS

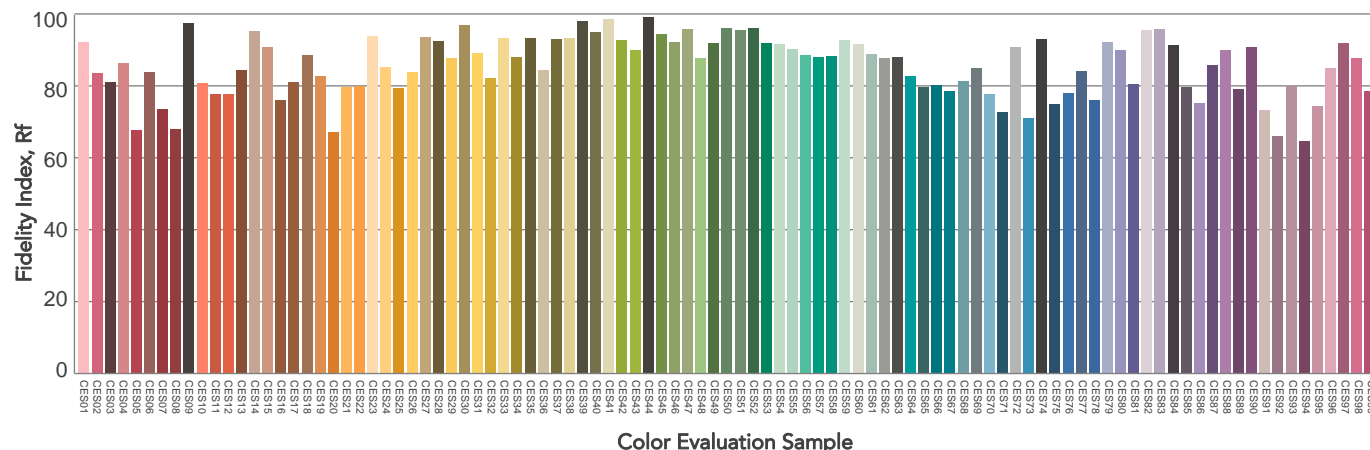
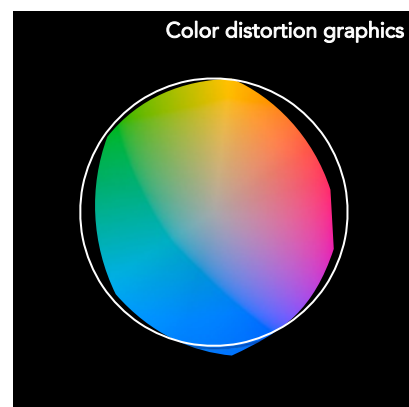
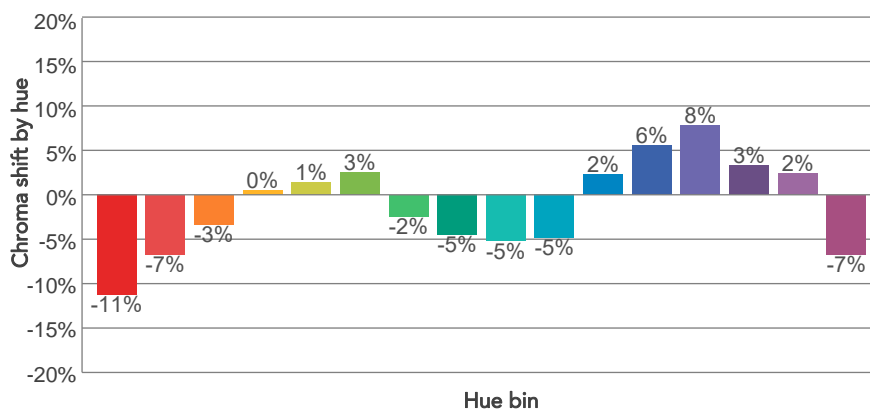
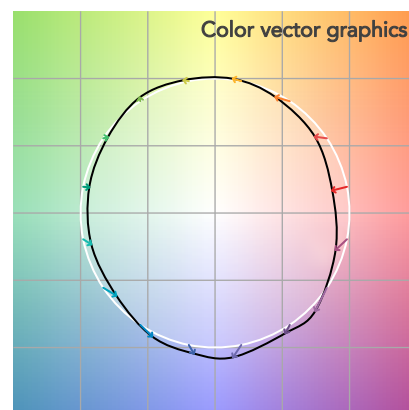
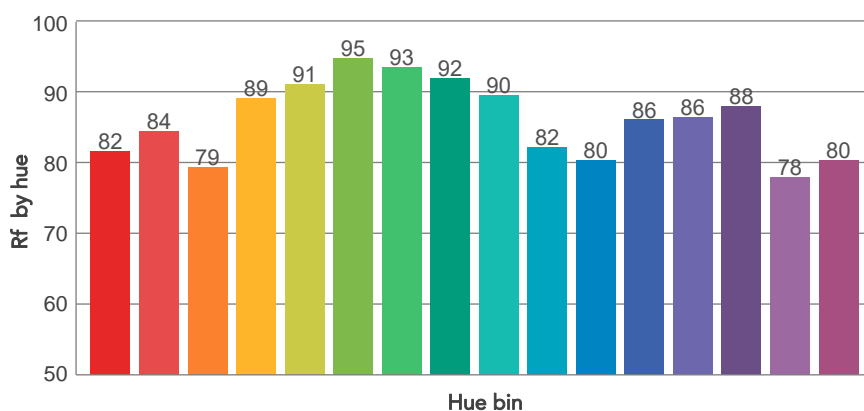
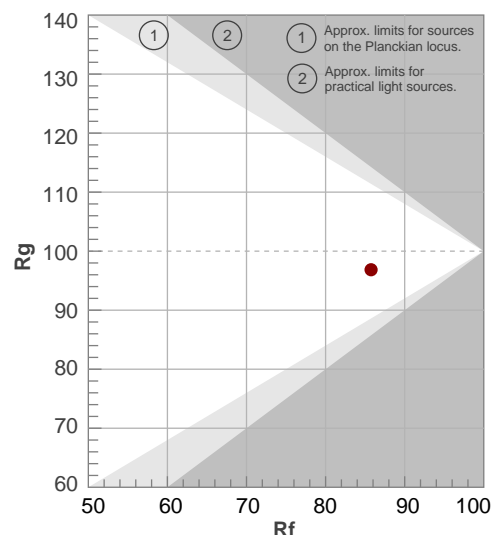
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4314 K	85,7	14,7	85,8	96,9	84,1	71	0,367	0,365	-0,0014

TM30 DETAILS

Rf 85,8
Fidelity index Rf

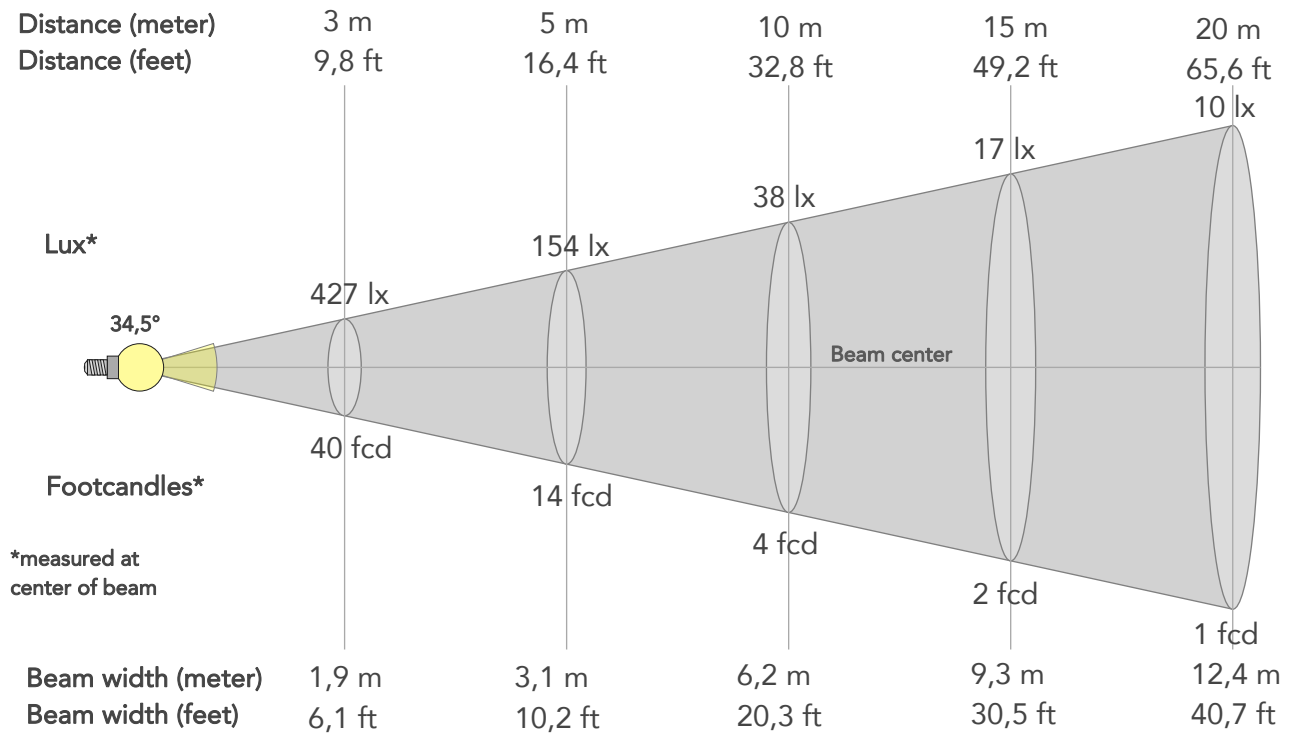
Rg 96,9
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	82	-11%	-1%
2	84	-7%	6%
3	79	-3%	11%
4	89	0%	6%
5	91	1%	4%
6	95	3%	-1%
7	93	-2%	-3%
8	92	-5%	0%
9	90	-5%	5%
10	82	-5%	10%
11	80	2%	12%
12	86	6%	5%
13	86	8%	-8%
14	88	3%	-6%
15	78	2%	-19%
16	80	-7%	-9%



BEAM DETAILS

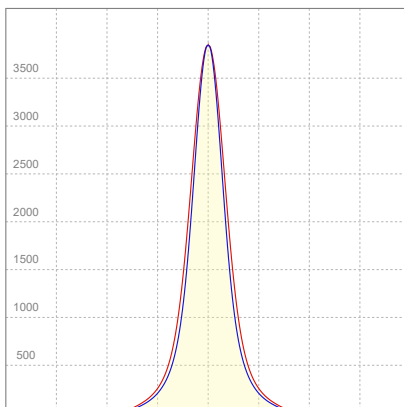
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
34,5°	74,8°	117,1°	96,5%	87,3%



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	3843lx	961lx	427lx	240lx	154lx	68lx	38lx	17lx	10lx	6lx	4lx	2lx	2lx
Footcand.	357fcd	89fcd	40fcd	22fcd	14fcd	6fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,2m	1,9m	2,5m	3,1m	4,7m	6,2m	9,3m	12,4m	15,5m	18,6m	24,8m	31m
Beam wid.	2ft	4,1ft	6,1ft	8,1ft	10,2ft	15,3ft	20,3ft	30,5ft	40,7ft	50,9ft	61ft	81,4ft	101,7ft

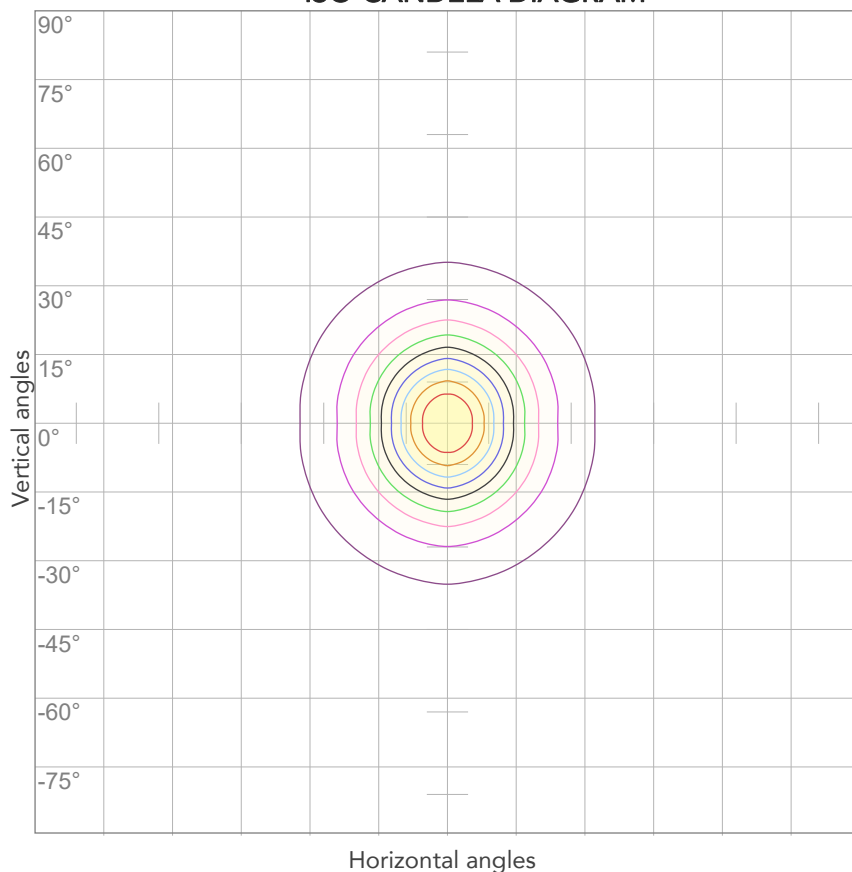
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,204A	43,8W	47lm/W

ISO CANDELA DIAGRAM



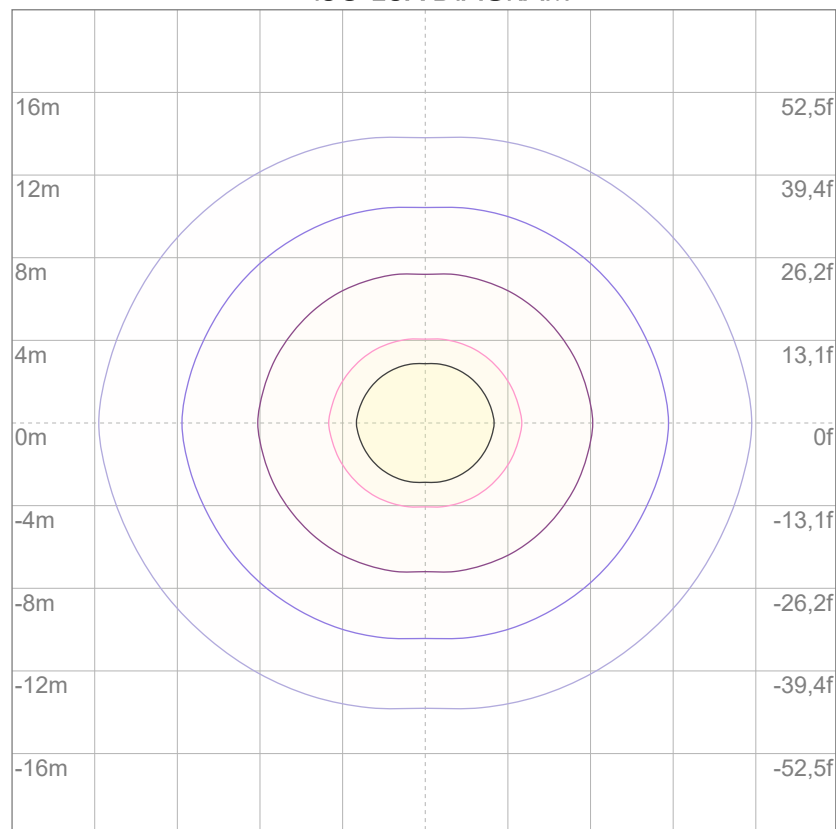
10%	384 cd
20%	769 cd
30%	1153 cd
40%	1537 cd
50%	1921 cd
60%	2306 cd
70%	2690 cd
80%	3074 cd

Conditions:

Number of c-planes: 4

Candela at center: 3843 cd

ISO LUX DIAGRAM



3%	1,15 lx
5%	1,92 lx
10%	3,84 lx
30%	11,5 lx
50%	19,2 lx

Conditions:

Number of c-planes: 4

Lux at center: 38,4 lx

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

Total lumen output:

1981 lm

Peak candela output:

1389 cd

Light quality:

CRI: 85,8

Color temperature:

4324 K



PRODUCT NAME:

ARCSHINES18VW

MEASURAMENT CONDITIONS:

Beam angle:

15°+ Filter 60°

Target:

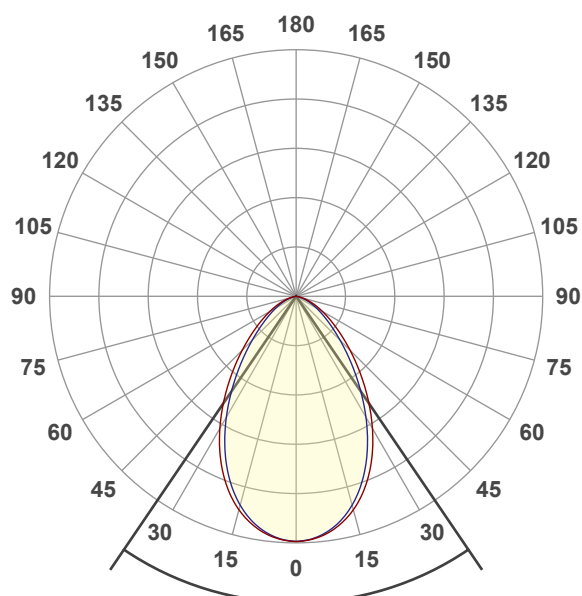
Full on

Operator:

Paolo Carvone

Date and time:

08/09/2022 12:58:20

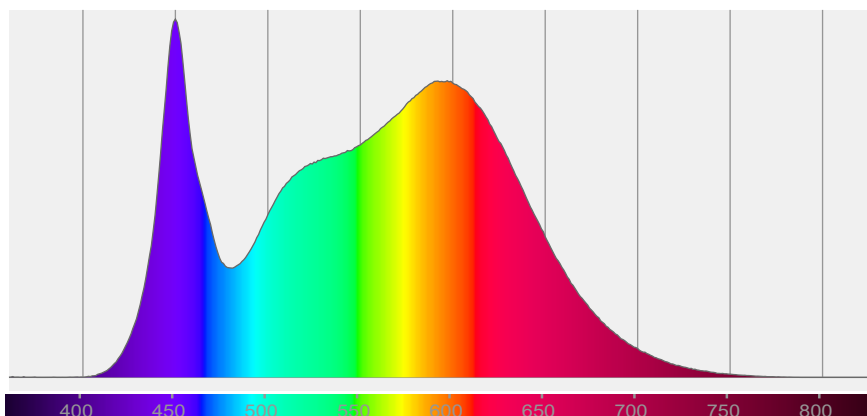


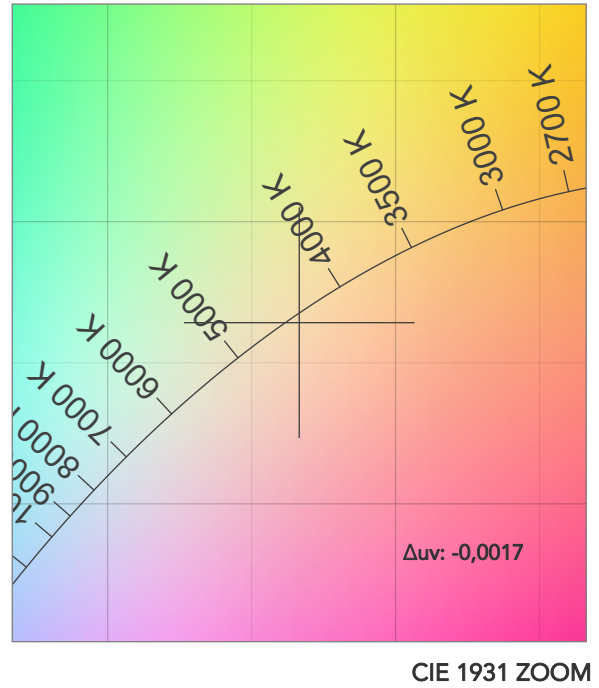
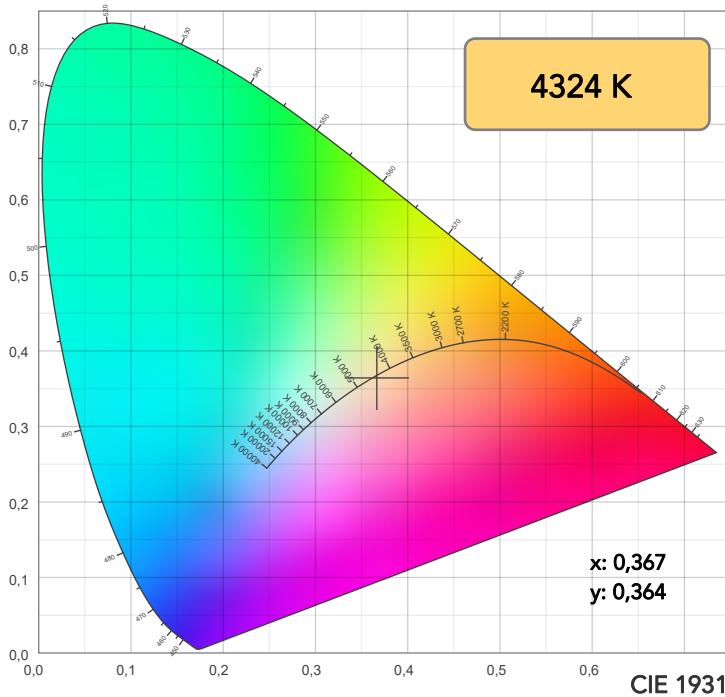
Beam angle 50%: 68,4°

Field angle 10%: 122,4°

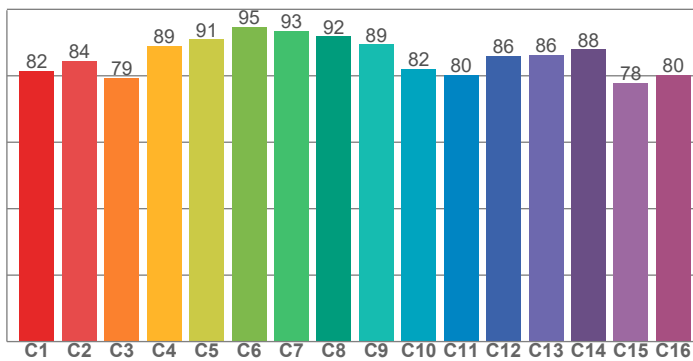
Cut off angle 2.5%: 148,8°

Spectra

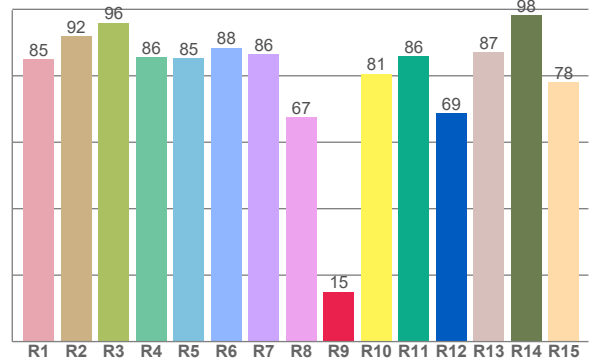




TM30: 85,7



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
84,9	91,9	95,9	85,5	85,3	88,4	86,5	67,5	15,0	80,6	85,9	68,7	87,0	98,3	78,1

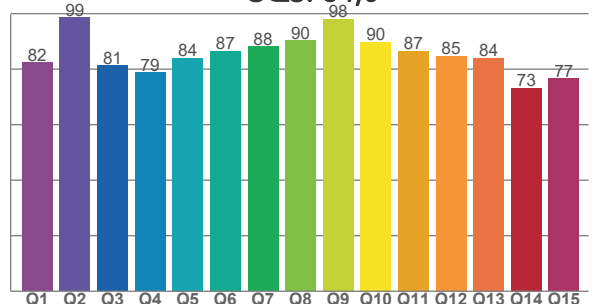
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81,5	84,4	79,4	89,1	91,0	94,7	93,4	91,8	89,4	82,1	80,3	86,0	86,3	87,9	77,9	80,3

CQS Q values

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

CQS: 84,0



COLOR PARAMETERS

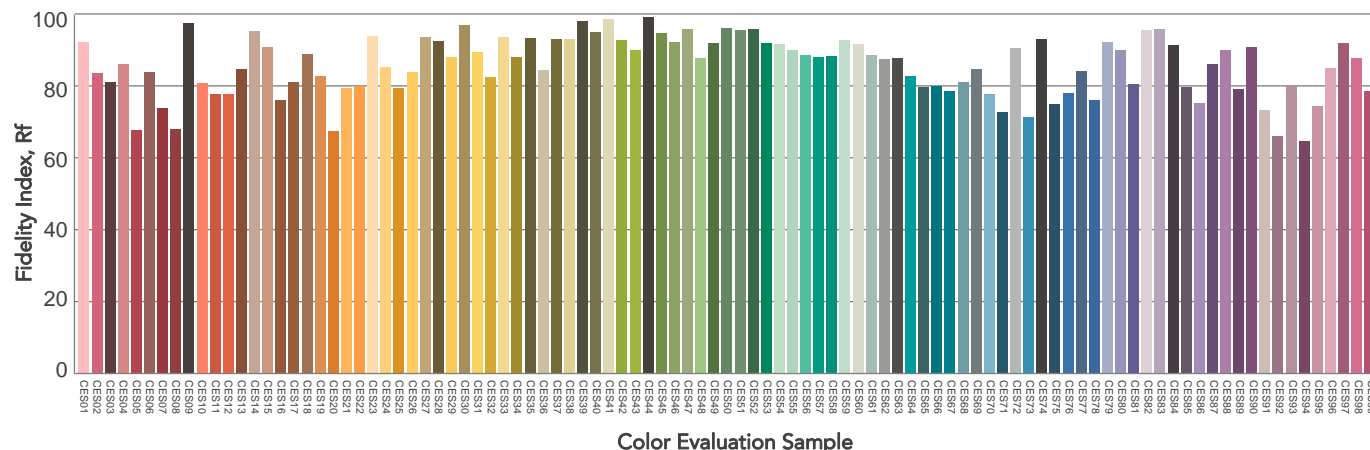
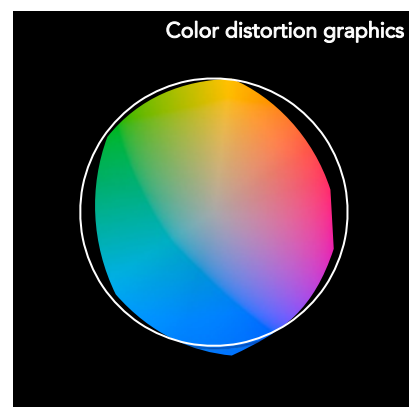
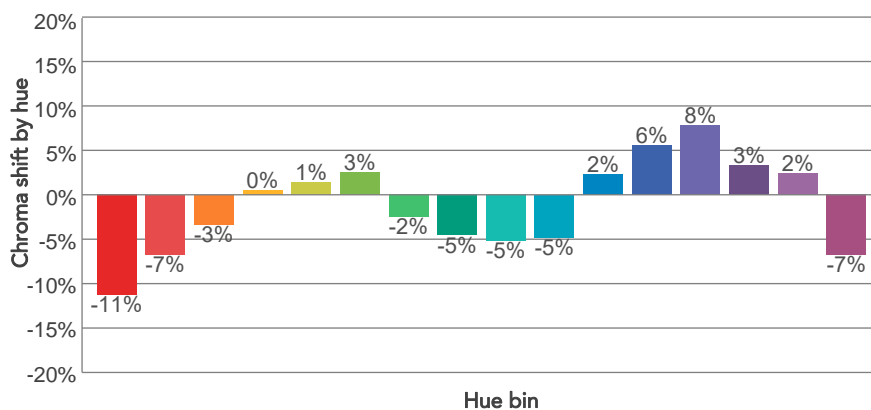
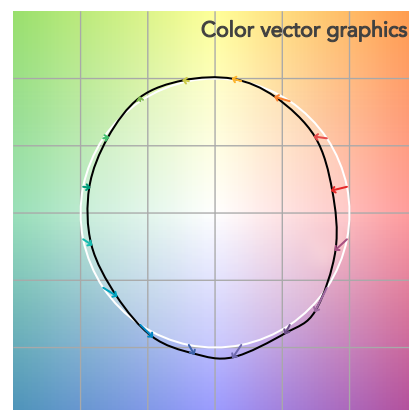
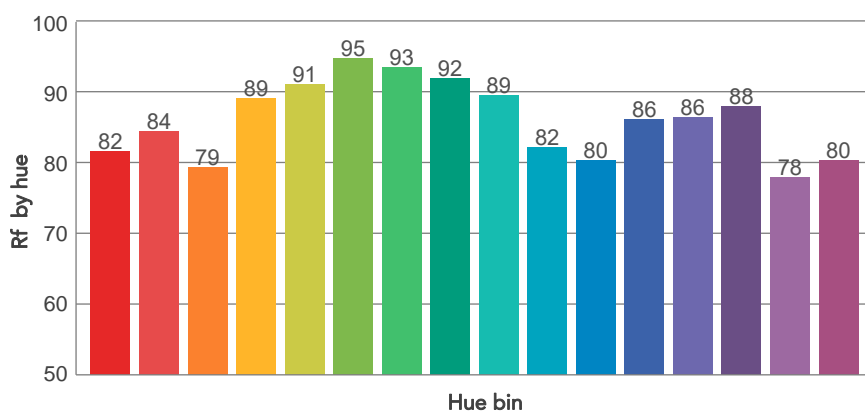
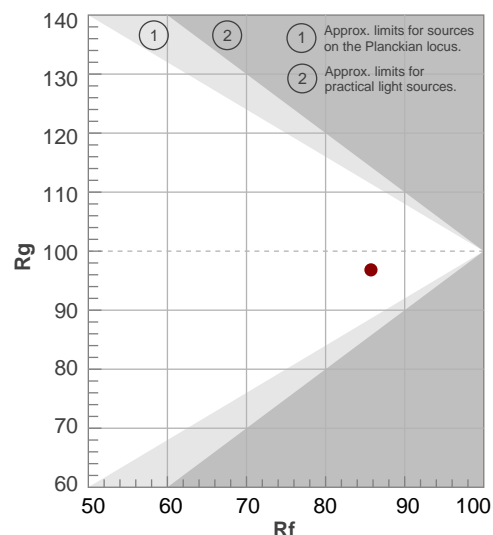
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4324 K	85,8	15,0	85,7	96,8	84,0	71	0,367	0,364	-0,0017

TM30 DETAILS

Rf 85,7
Fidelity index Rf

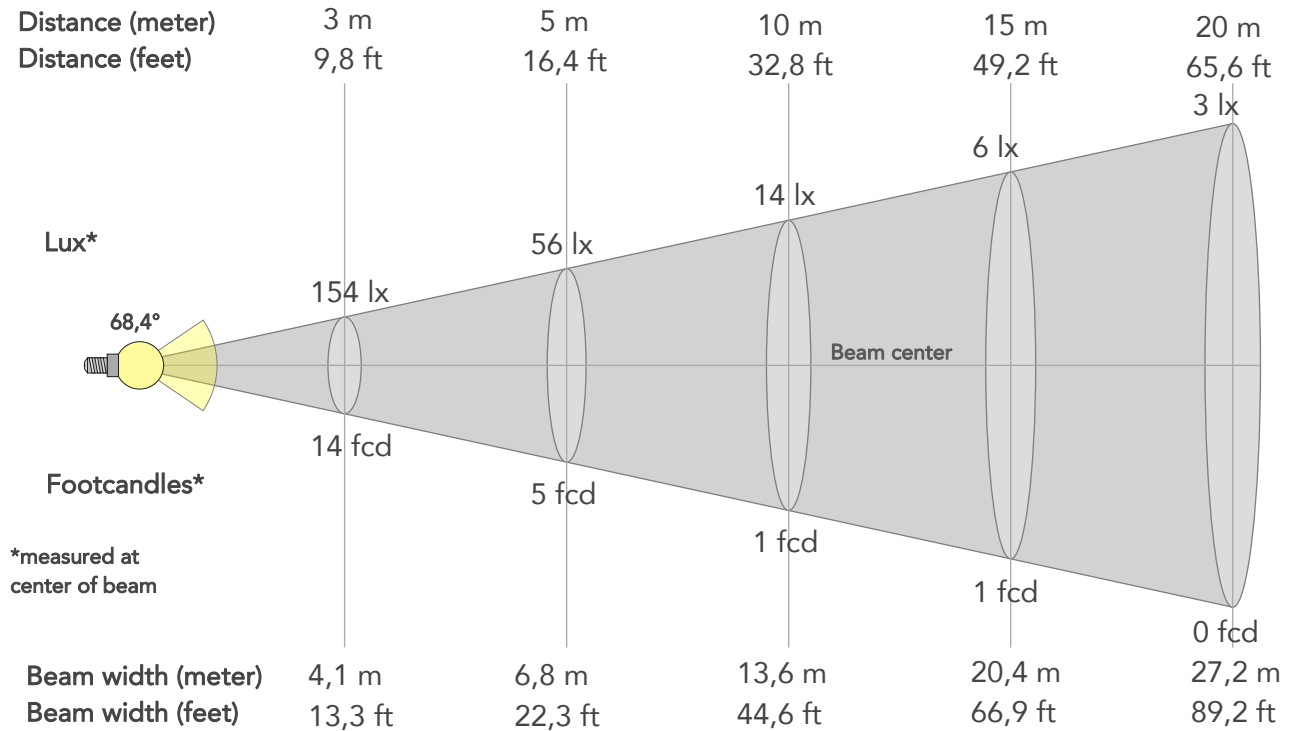
Rg 96,8
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	82	-11%	-1%
2	84	-7%	6%
3	79	-3%	11%
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	78	2%	-19%
16	80	-7%	-9%



BEAM DETAILS

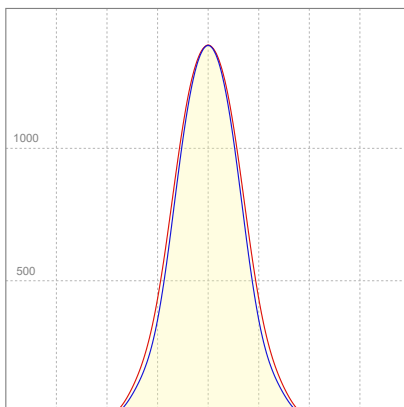
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
68,4°	122,4°	148,8°	92,9%	76,3%



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	1389lx	347lx	154lx	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.	1,4m	2,7m	4,1m	5,4m	6,8m	10,2m	13,6m	20,4m	27,2m	34m	40,8m	54,4m	68m
Beam wid.	4,5ft	9ft	13,3ft	17,8ft	22,3ft	33,4ft	44,6ft	66,9ft	89,2ft	111,5ft	133,8ft	178,4ft	223ft

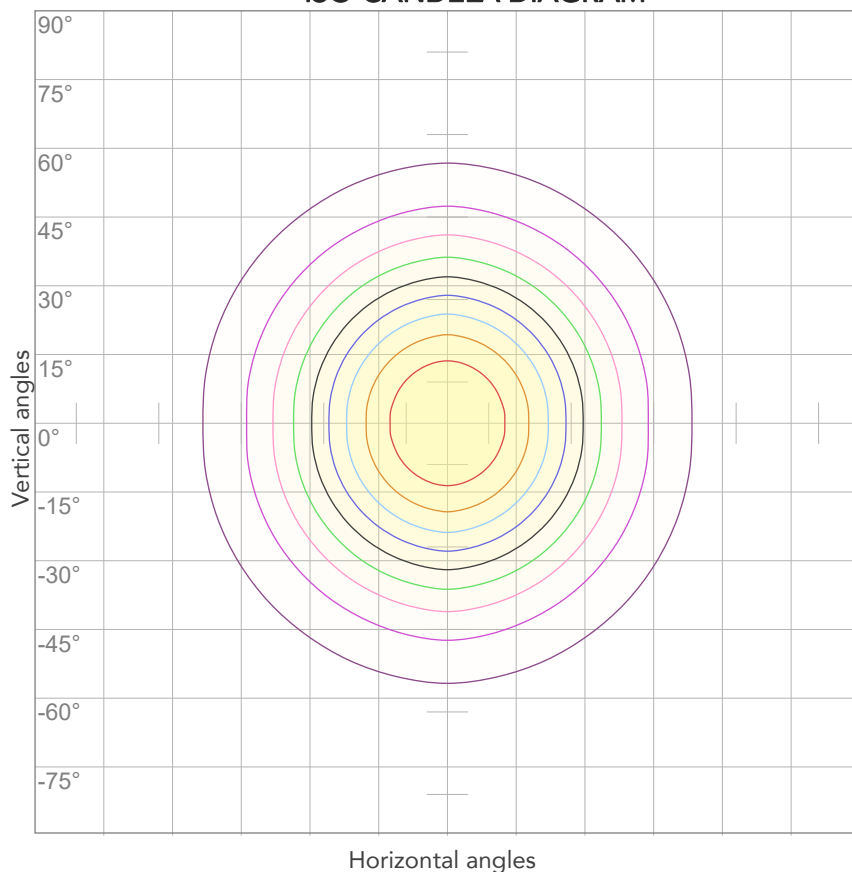
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,202A	43,5W	46lm/W

ISO CANDELA DIAGRAM



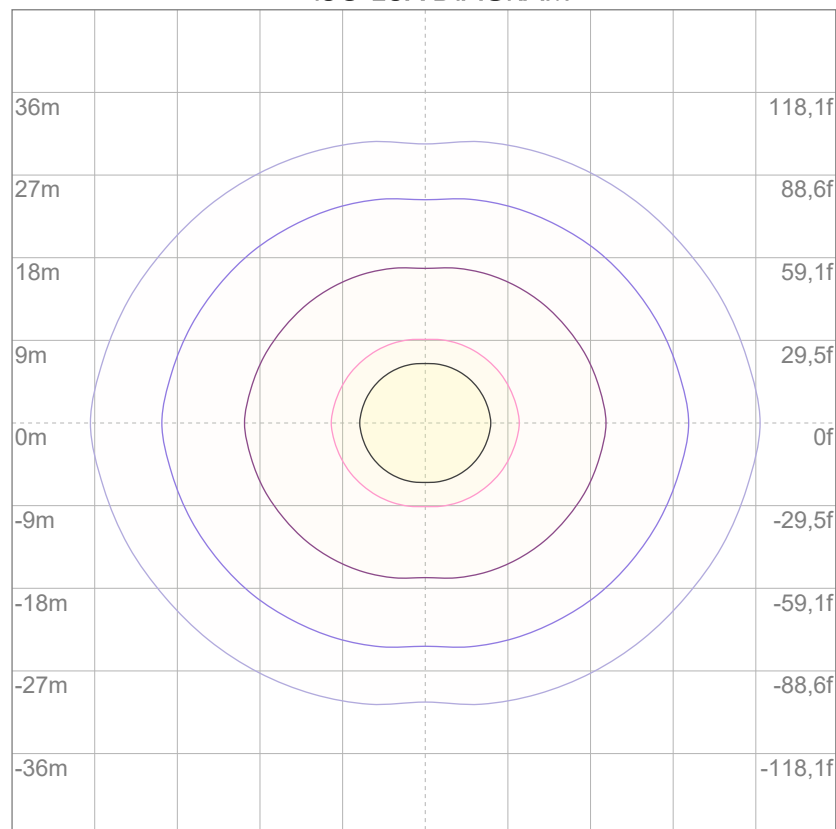
10%	139 cd
20%	278 cd
30%	417 cd
40%	556 cd
50%	694 cd
60%	833 cd
70%	972 cd
80%	1111 cd

Conditions:

Number of c-planes: 4

Candela at center: 1389 cd

ISO LUX DIAGRAM



3%	0,417 lx
5%	0,694 lx
10%	1,39 lx
30%	4,17 lx
50%	6,94 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:

2552 lm

Peak candela output:

2692 cd

Light quality:

CRI: 85,9

Color temperature:

4341 K



PRODUCT NAME:

ARCSHINES18VW

MEASURAMENT CONDITIONS:

Beam angle:

15°+ Filter 10°x60°

Target:

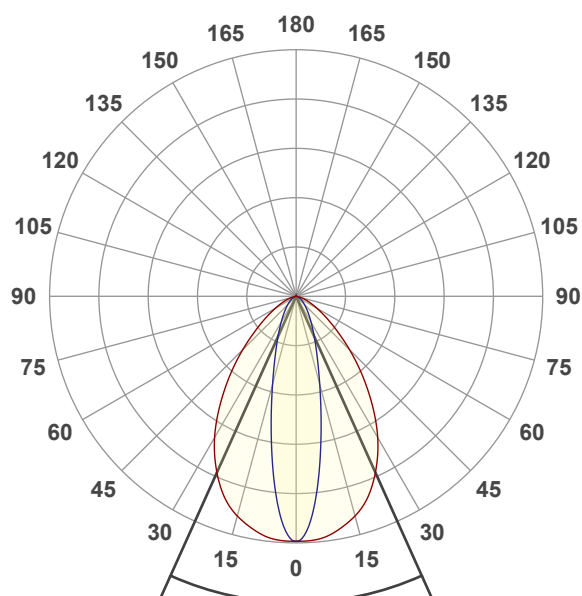
Full on

Operator:

Paolo Carvone

Date and time:

08/09/2022 13:04:40

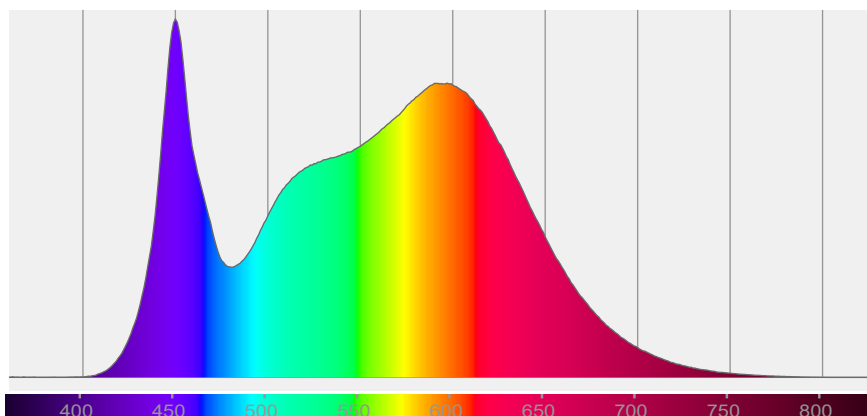


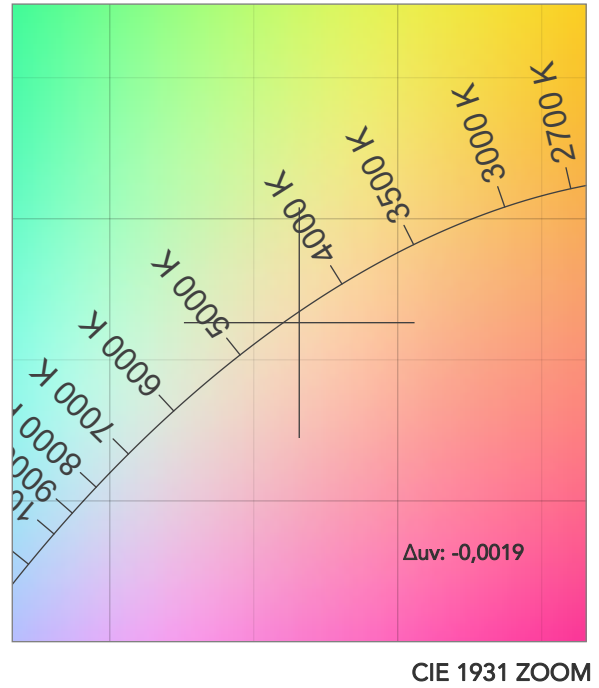
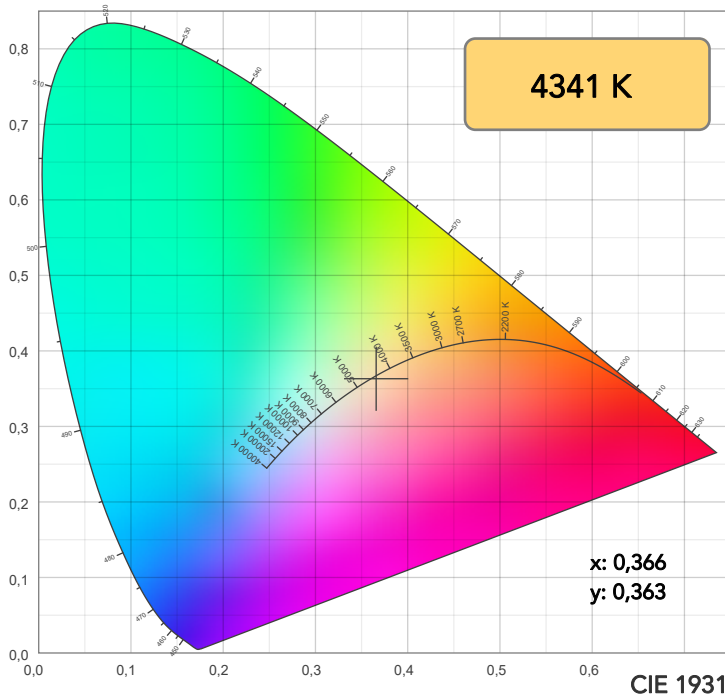
Beam angle 50%: 48,4°

Field angle 10%: 93°

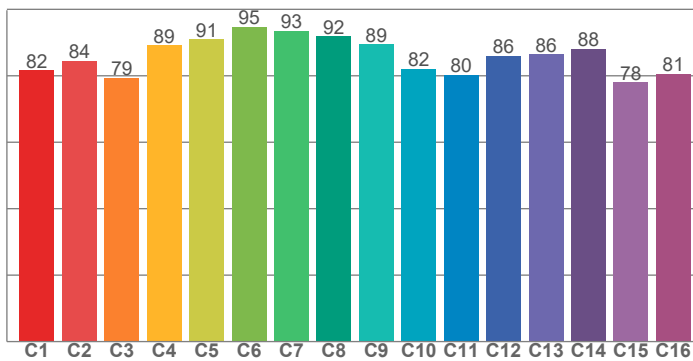
Cut off angle 2.5%: 129,5°

Spectra

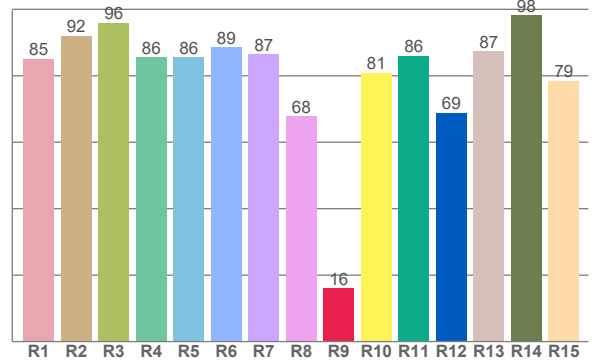




TM30: 85,8



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
85,1	92,1	95,9	85,7	85,6	88,6	86,5	67,9	16,1	81,0	86,0	68,9	87,3	98,3	78,5

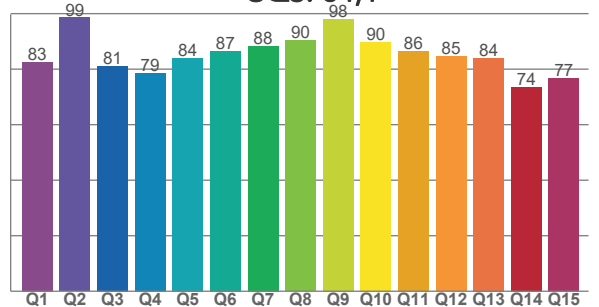
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81,7	84,5	79,4	89,1	91,0	94,7	93,4	91,9	89,4	82,1	80,3	86,1	86,4	88,1	78,0	80,5

CQS Q values

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

CQS: 84,1



COLOR PARAMETERS

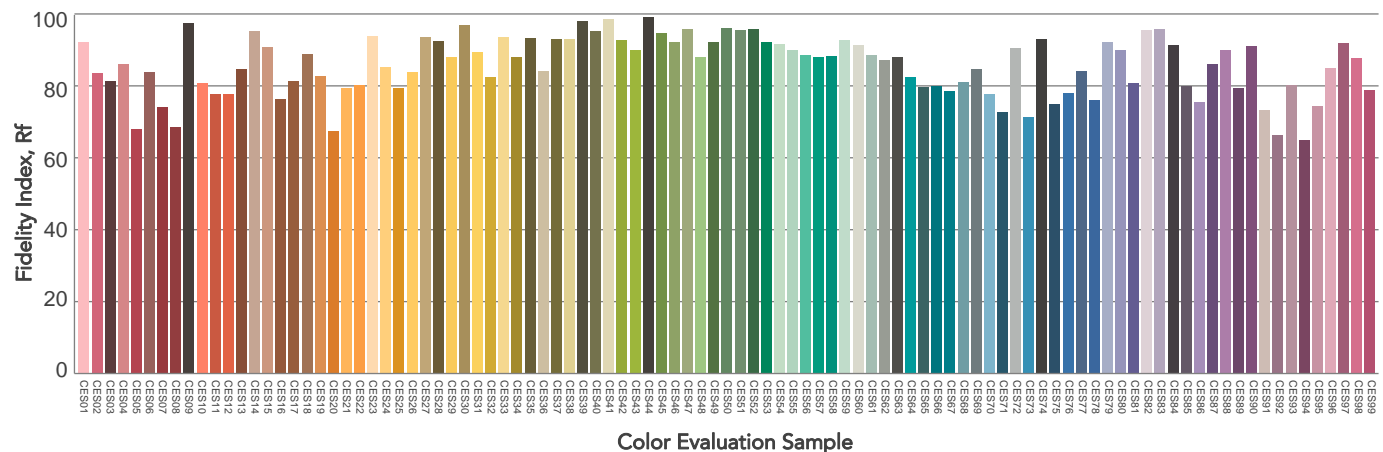
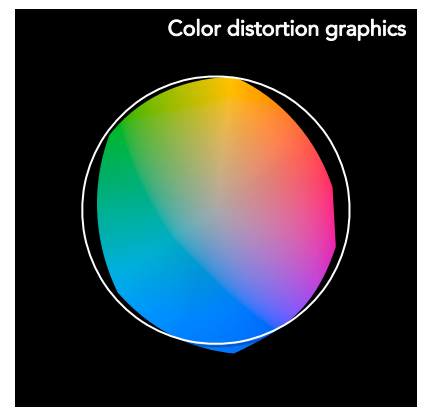
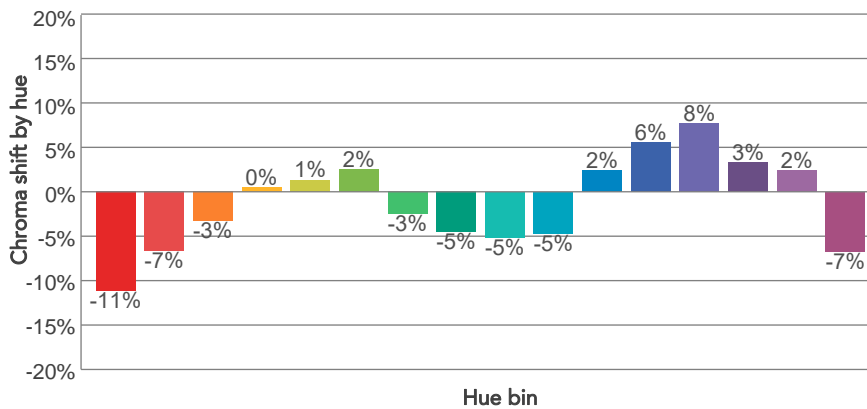
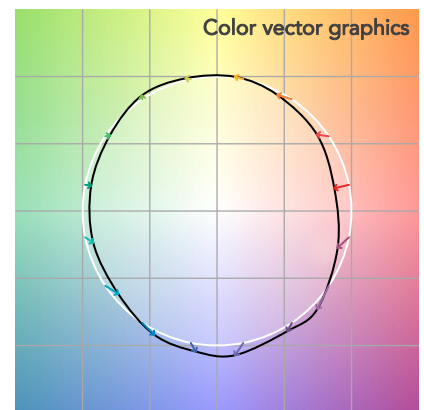
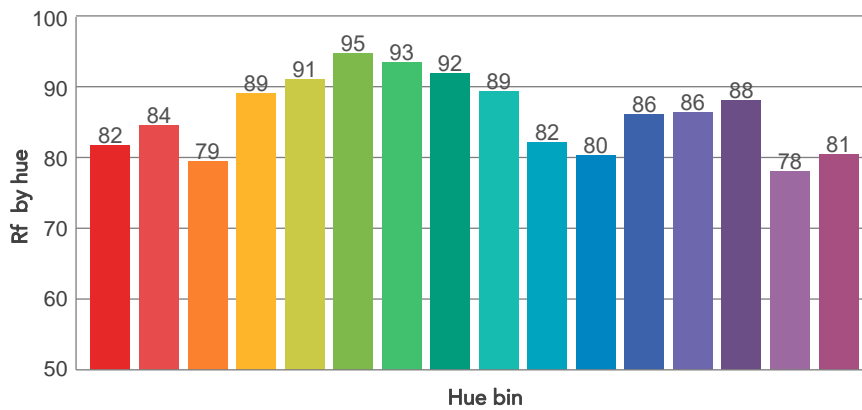
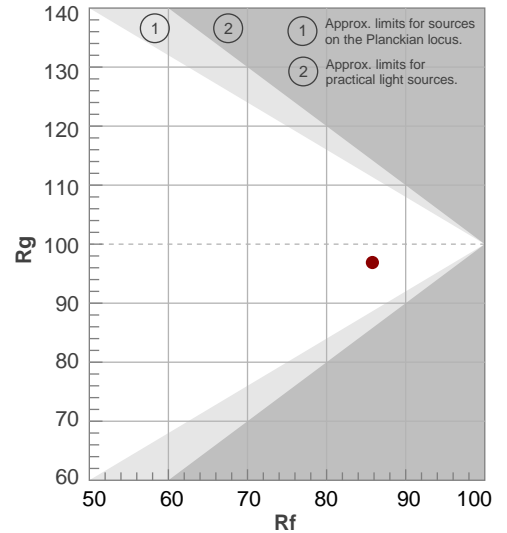
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4341 K	85,9	16,1	85,8	96,9	84,1	71	0,366	0,363	-0,0019

TM30 DETAILS

Rf 85,8
Fidelity index Rf

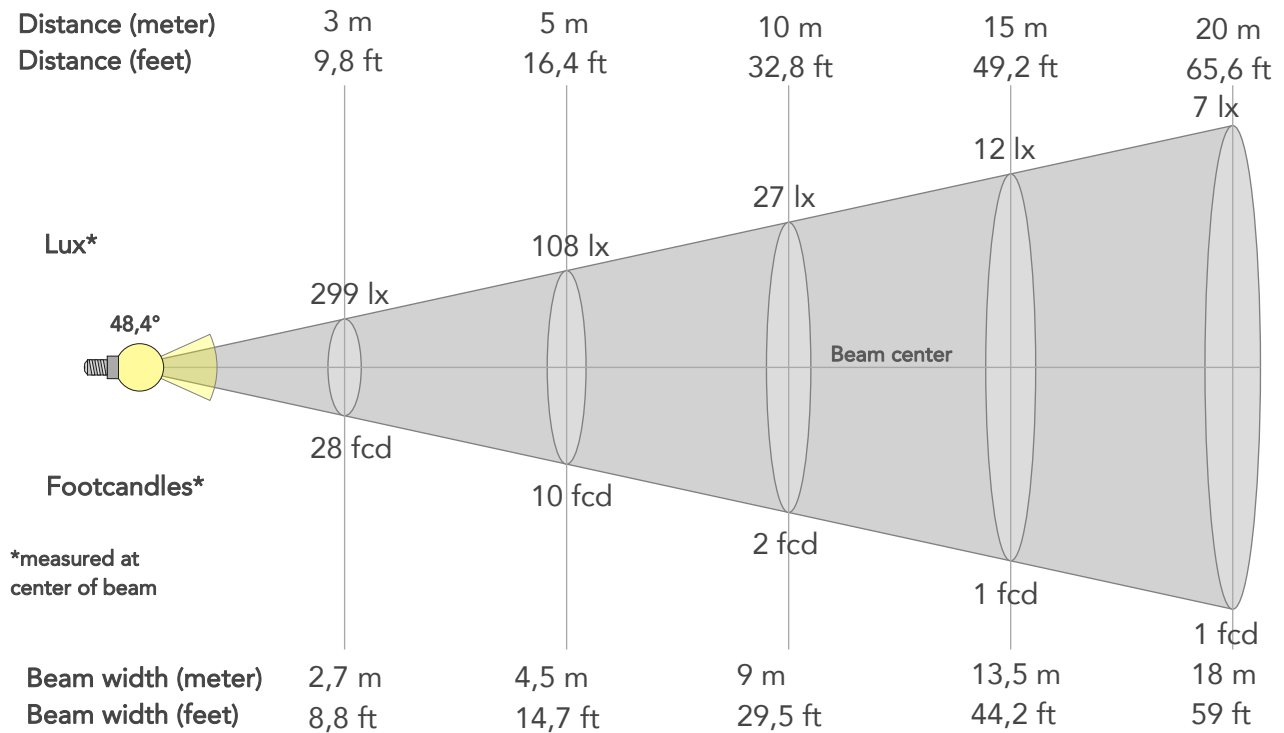
Rg 96,9
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	82	-11%	0%
2	84	-7%	6%
3	79	-3%	11%
4	89	0%	6%
5	91	1%	4%
6	95	2%	-1%
7	93	-3%	-2%
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	78	2%	-19%
16	81	-7%	-9%



BEAM DETAILS

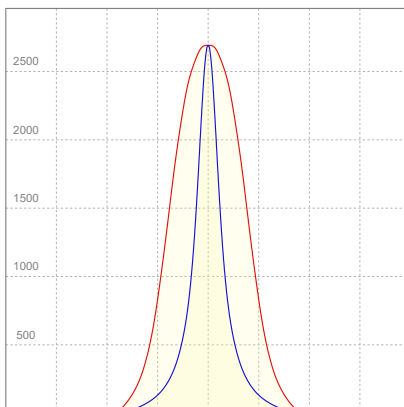
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
48,4°	93°	129,5°	94,6%	79,8%



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	2688lx	672lx	299lx	168lx	108lx	48lx	27lx	12lx	7lx	4lx	3lx	2lx	1lx
Footcand.	250fcd	62fcd	28fcd	16fcd	10fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,8m	2,7m	3,6m	4,5m	6,7m	9m	13,5m	18m	22,5m	27m	36m	45m
Beam wid.	3ft	5,9ft	8,8ft	11,8ft	14,7ft	22,1ft	29,5ft	44,2ft	59ft	73,7ft	88,5ft	118ft	147,5ft

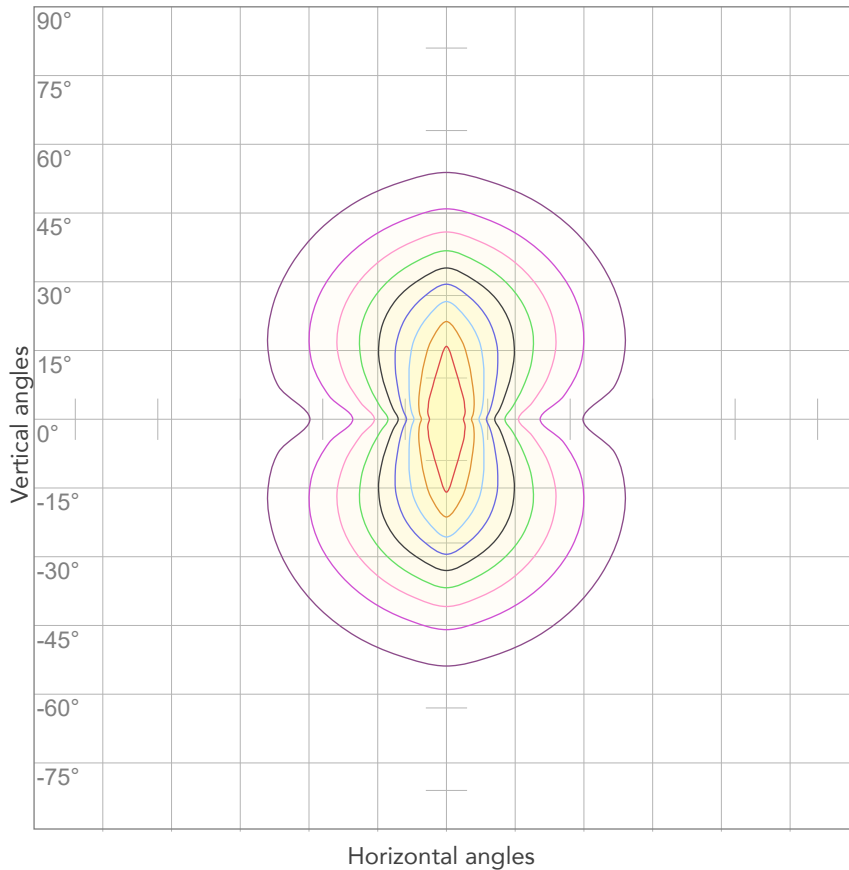
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,202A	43,4W	59lm/W

ISO CANDELA DIAGRAM



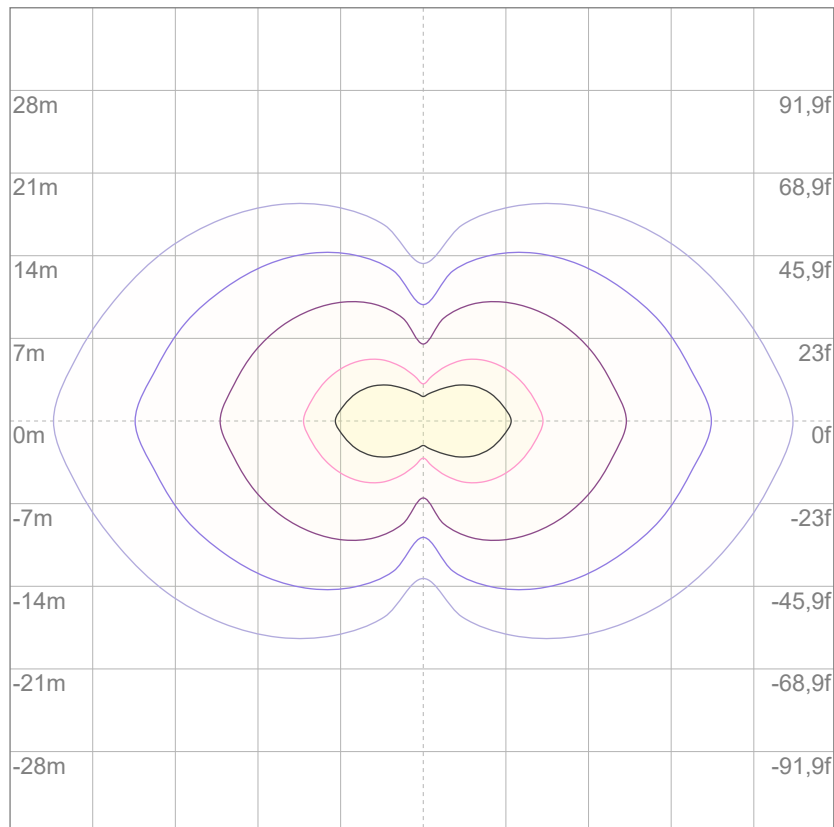
10%	269 cd
20%	538 cd
30%	807 cd
40%	1075 cd
50%	1344 cd
60%	1613 cd
70%	1882 cd
80%	2151 cd

Conditions:

Number of c-planes: 4

Candela at center: 2688 cd

ISO LUX DIAGRAM



3%	0,807 lx
5%	1,34 lx
10%	2,69 lx
30%	8,07 lx
50%	13,4 lx

Conditions:

Number of c-planes: 4

Lux at center: 26,9 lx

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

Total lumen output:

2140 lm

Peak candela output:

1766 cd

Light quality:

CRI: 85,9

Color temperature:

4323 K



PRODUCT NAME:

ARCSHINES18VW

MEASURAMENT CONDITIONS:

Beam angle:

15°+ Filter 30°x60°

Target:

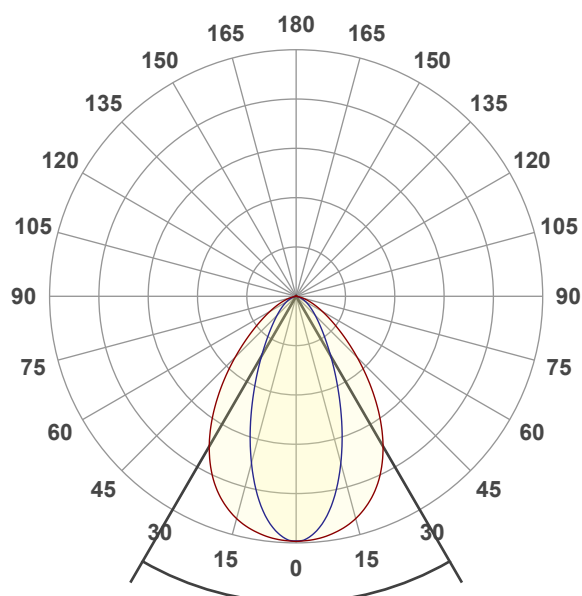
Full on

Operator:

Paolo Carvone

Date and time:

08/09/2022 13:01:37

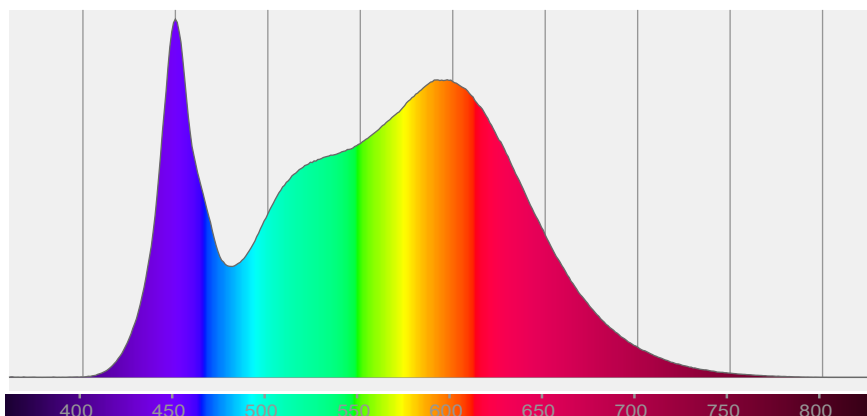


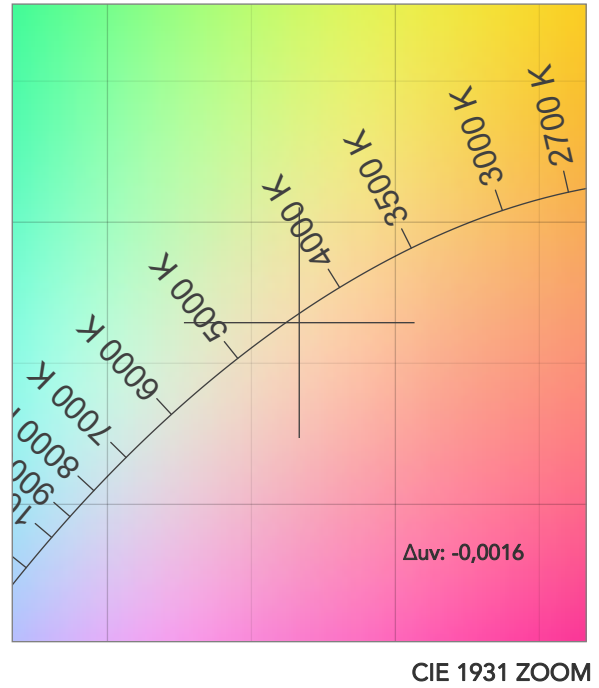
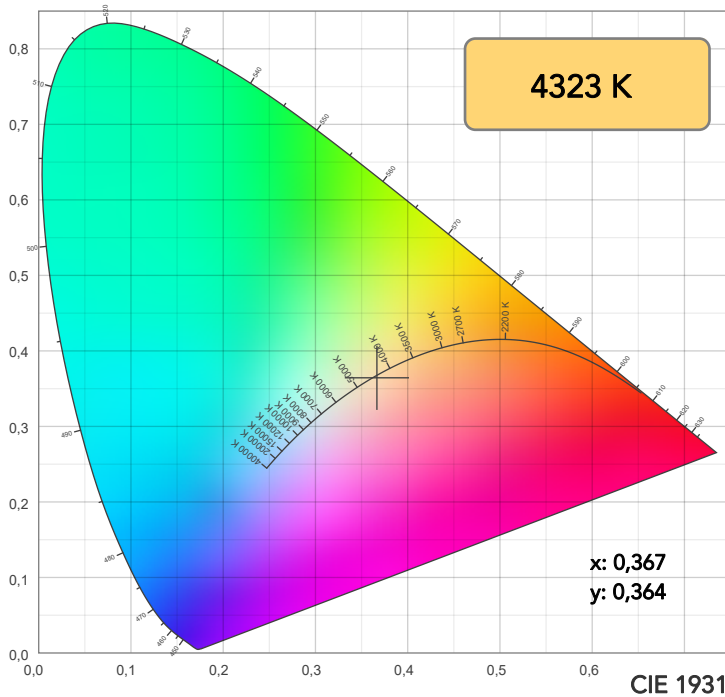
Beam angle 50%: 60,2°

Field angle 10%: 109,6°

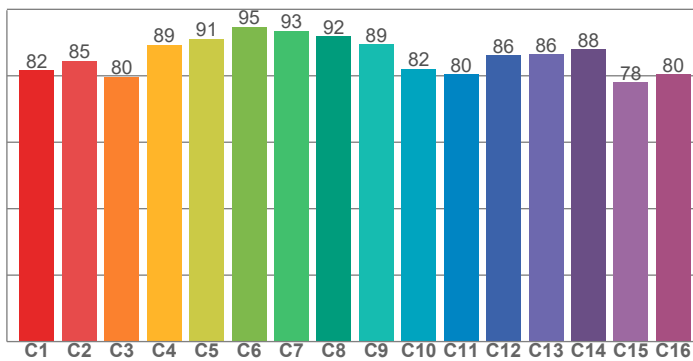
Cut off angle 2.5%: 143,3°

Spectra

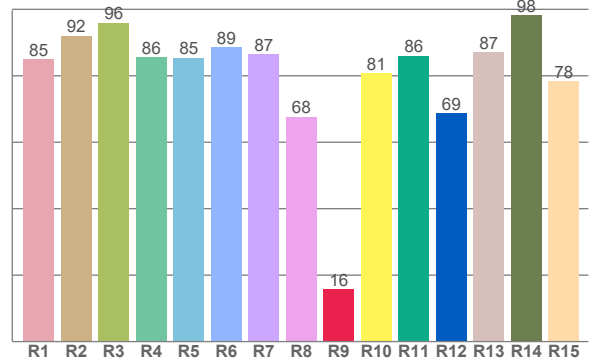




TM30: 85,8



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
85,0	92,0	96,0	85,6	85,4	88,6	86,6	67,7	15,7	80,8	86,0	68,8	87,2	98,3	78,3

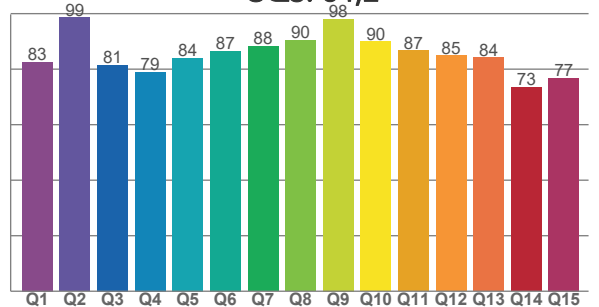
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81,6	84,6	79,6	89,2	91,1	94,8	93,4	91,8	89,4	82,2	80,4	86,2	86,4	88,0	78,0	80,5

CQS Q values

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

CQS: 84,2



COLOR PARAMETERS

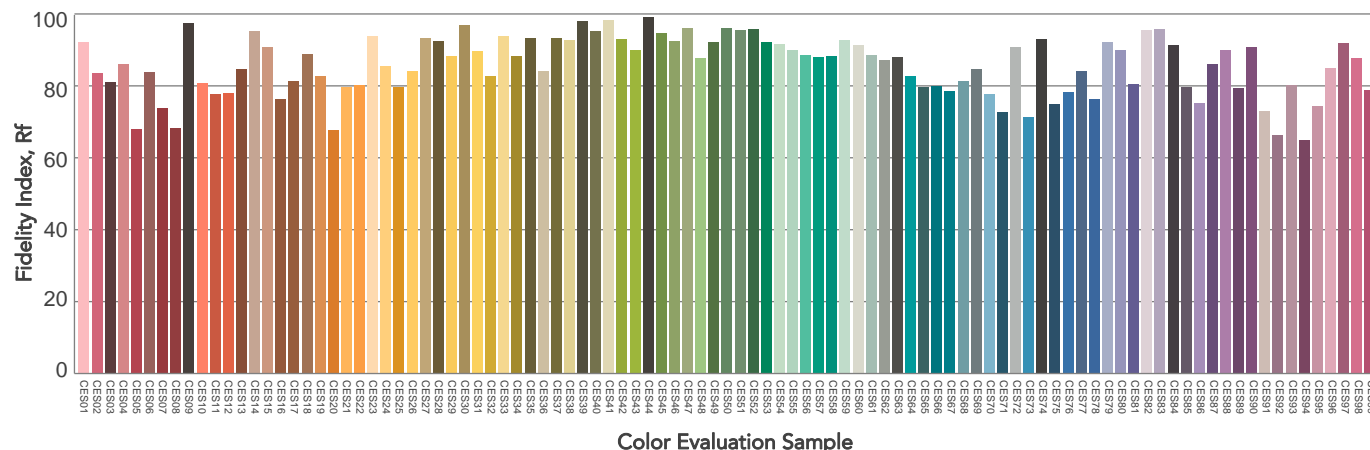
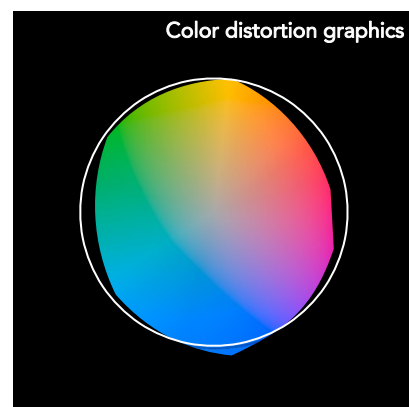
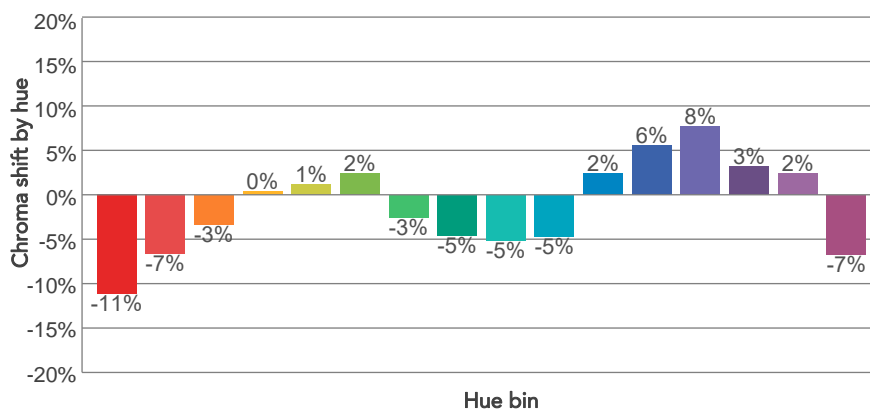
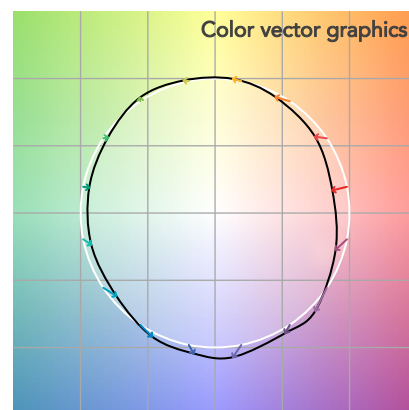
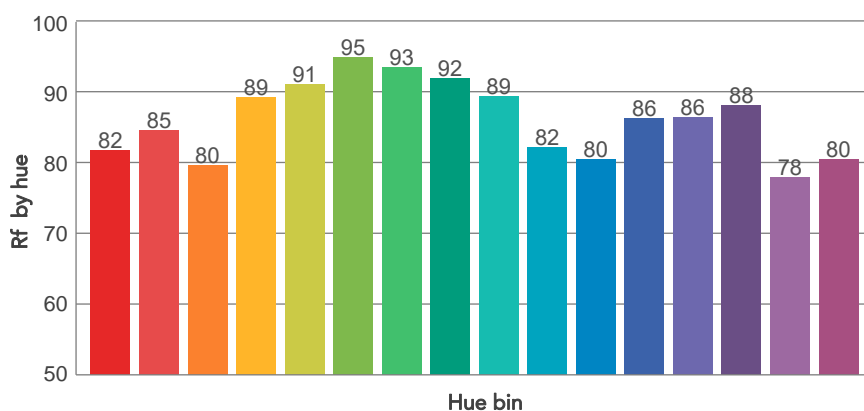
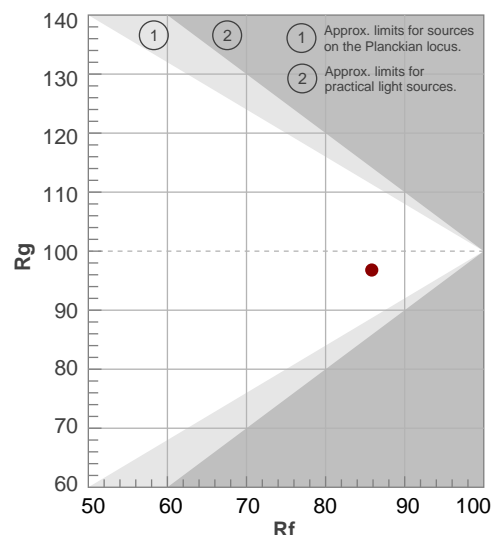
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4323 K	85,9	15,7	85,8	96,8	84,2	71	0,367	0,364	-0,0016

TM30 DETAILS

Rf 85,8
Fidelity index Rf

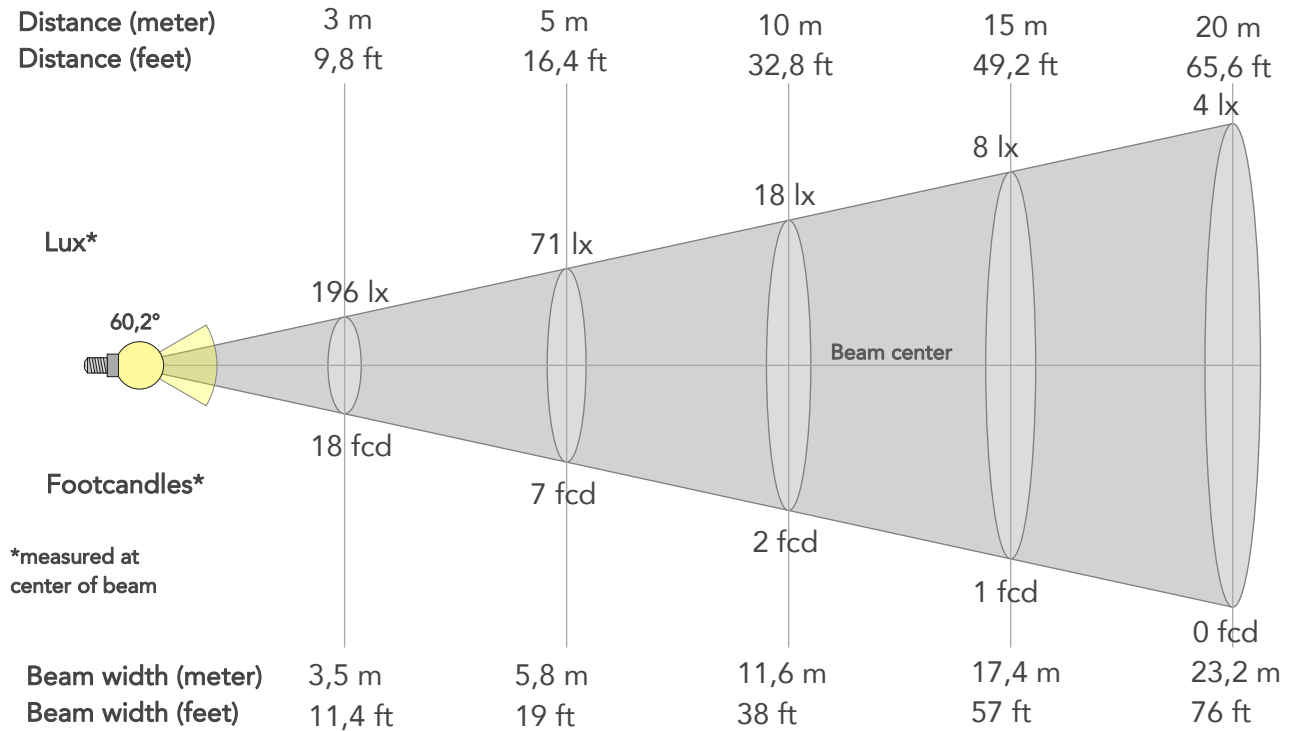
Rg 96,8
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	82	-11%	0%
2	85	-7%	6%
3	80	-3%	10%
4	89	0%	6%
5	91	1%	4%
6	95	2%	-1%
7	93	-3%	-2%
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	78	2%	-19%
16	80	-7%	-9%



BEAM DETAILS

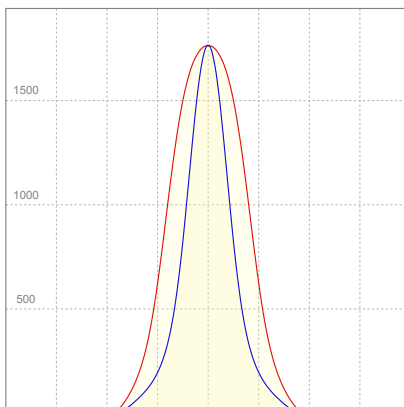
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
60,2°	109,6°	143,3°	93,5%	77,9%



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	1763lx	441lx	196lx	110lx	71lx	31lx	18lx	8lx	4lx	3lx	2lx	1lx	1lx
Footcand.	164fcd	41fcd	18fcd	10fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,2m	2,3m	3,5m	4,6m	5,8m	8,7m	11,6m	17,4m	23,2m	29m	34,7m	46,3m	57,9m
Beam wid.	3,8ft	7,6ft	11,4ft	15,2ft	19ft	28,5ft	38ft	57ft	76ft	95ft	114ft	152ft	190ft

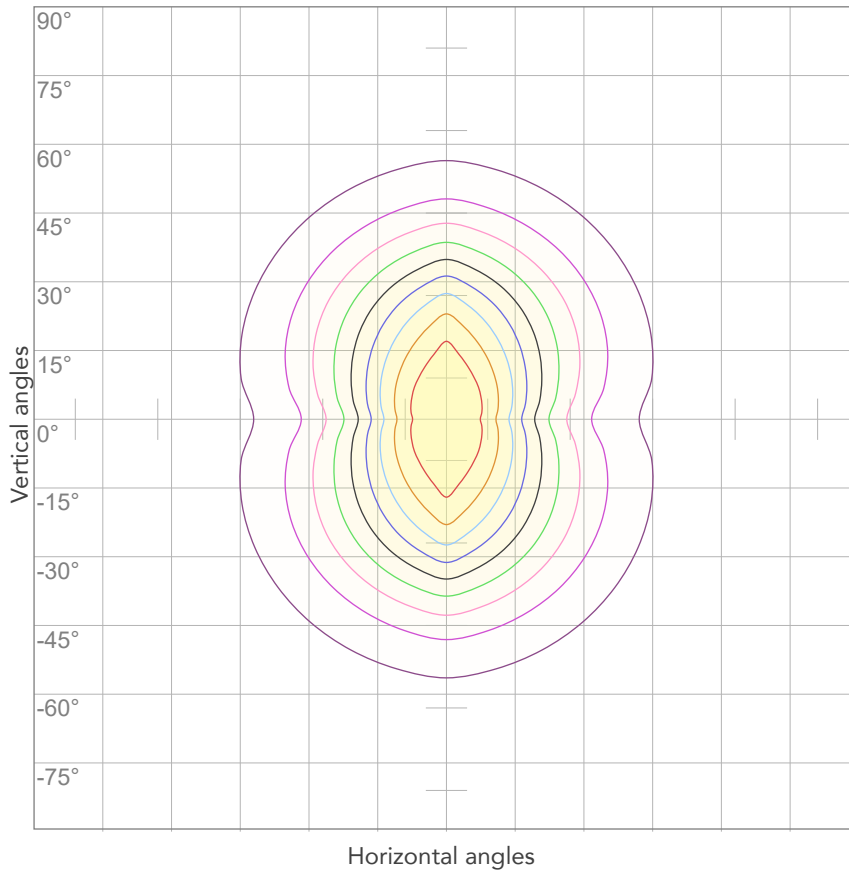
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,202A	43,4W	49lm/W

ISO CANDELA DIAGRAM



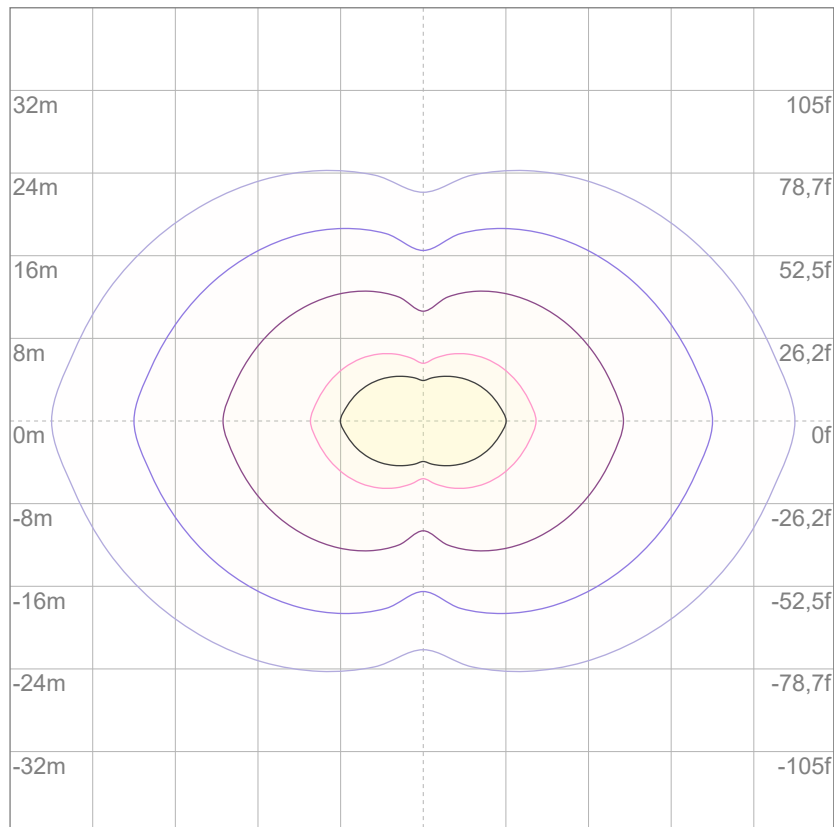
10%	176 cd
20%	353 cd
30%	529 cd
40%	705 cd
50%	882 cd
60%	1058 cd
70%	1234 cd
80%	1411 cd

Conditions:

Number of c-planes: 4

Candela at center: 1763 cd

ISO LUX DIAGRAM



3%	0,529 lx
5%	0,882 lx
10%	1,76 lx
30%	5,29 lx
50%	8,82 lx

Conditions:

Number of c-planes: 4

Lux at center: 17,6 lx

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

Total lumen output:

1930 lm

Peak candela output:

8372 cd

Light quality:

CRI: 80,1

Color temperature:

2838 K



PRODUCT NAME:

ARCSHINES18VW

MEASURAMENT CONDITIONS:

Beam angle:

15°

Target:

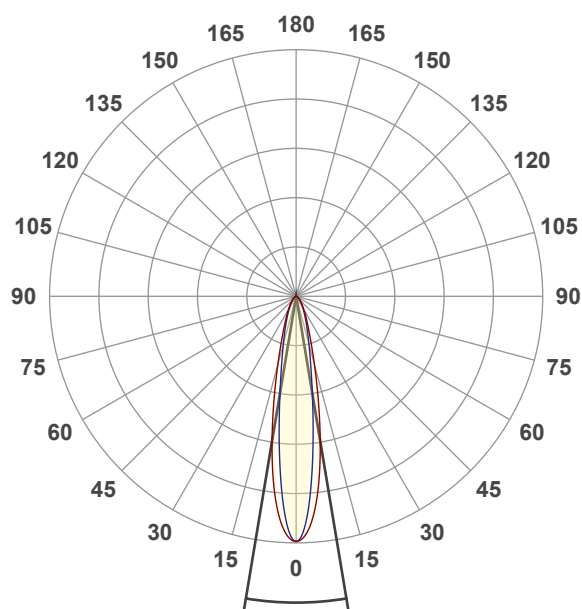
Warm White

Operator:

Paolo Carvone

Date and time:

08/09/2022 13:12:09

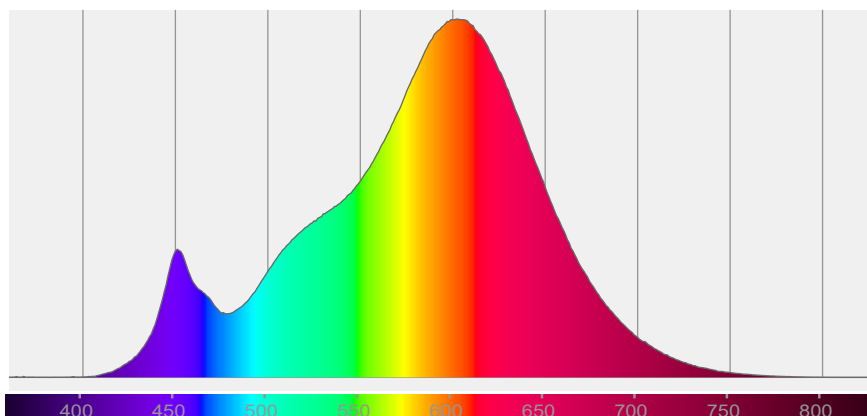


Beam angle 50%: 18,9°

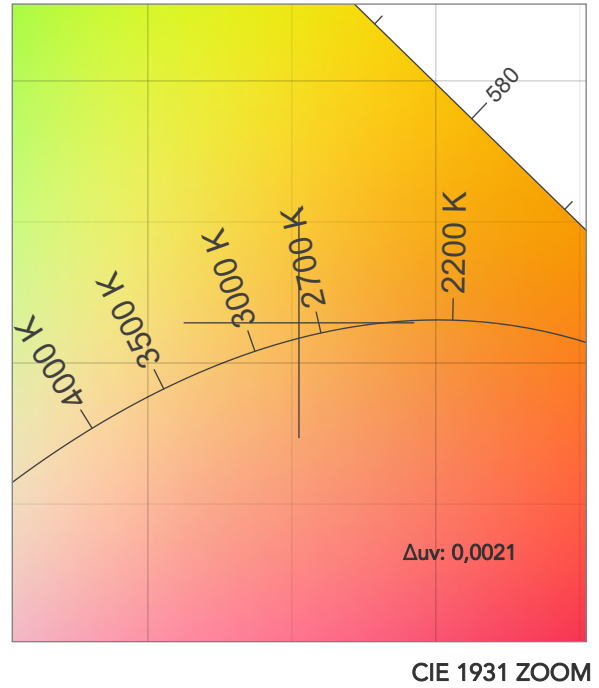
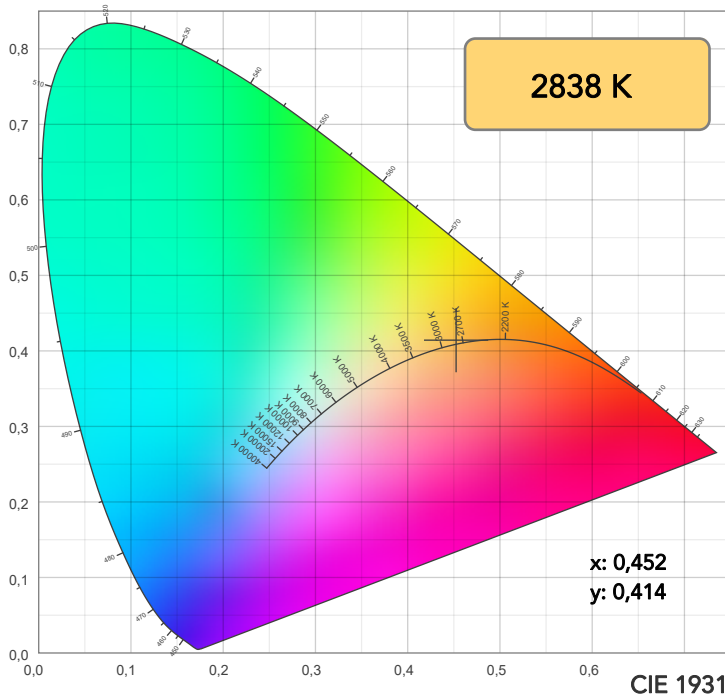
Field angle 10%: 46,9°

Cut off angle 2.5%: 83,3°

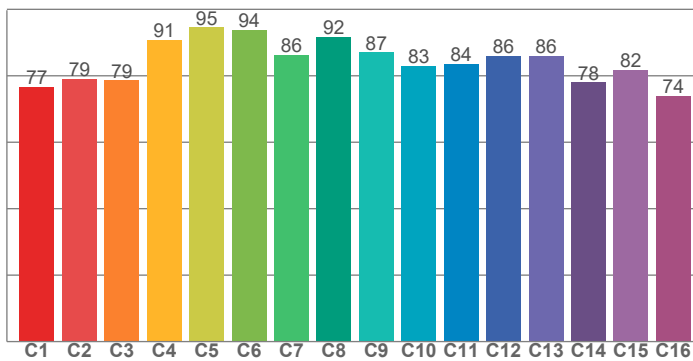
Spectra



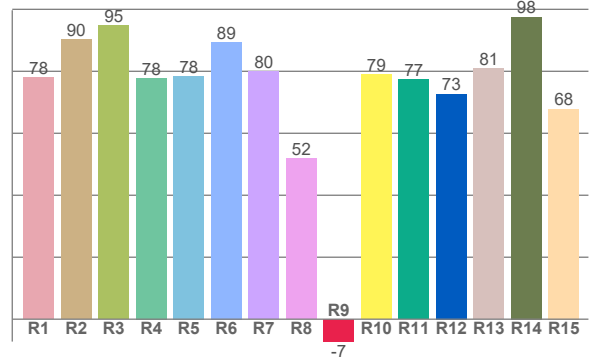
COLOR DETAILS



TM30: 84,3



CRI: 80,1 (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
78,0	90,3	94,7	77,8	78,5	89,5	79,9	51,9	-7,2	78,9	77,3	72,7	80,9	97,6	67,9

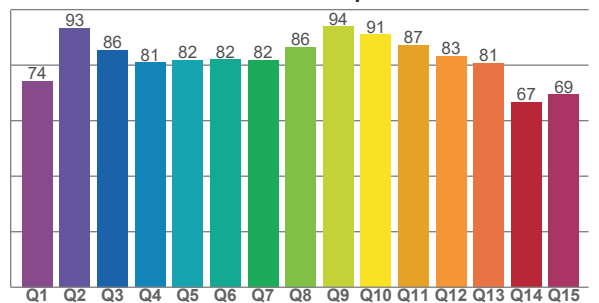
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
76,6	79,1	78,6	90,9	94,5	93,8	86,2	91,7	87,0	82,9	83,5	85,9	86,0	78,0	81,8	73,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,3	93,3	85,5	80,9	81,9	82,0	81,9	86,5	93,9	91,0	87,1	83,3	80,8	66,6	69,4

CQS: 80,8



COLOR PARAMETERS

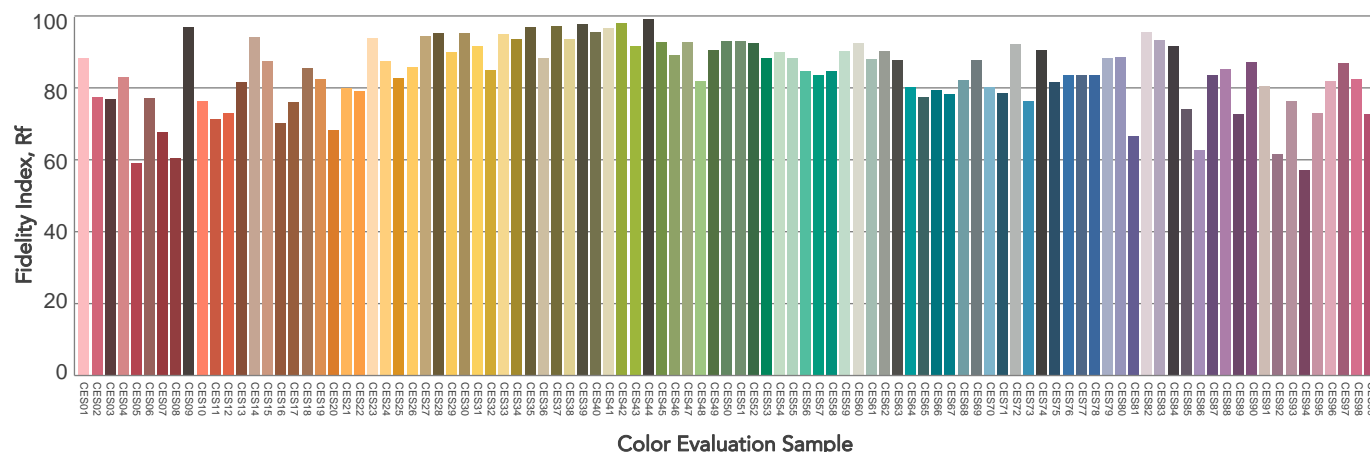
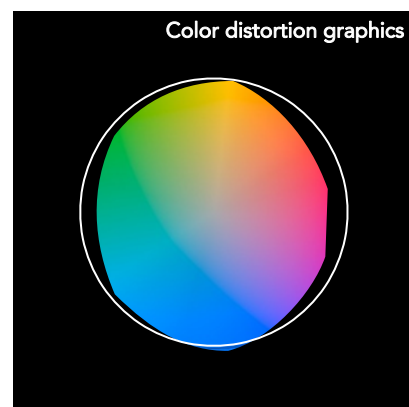
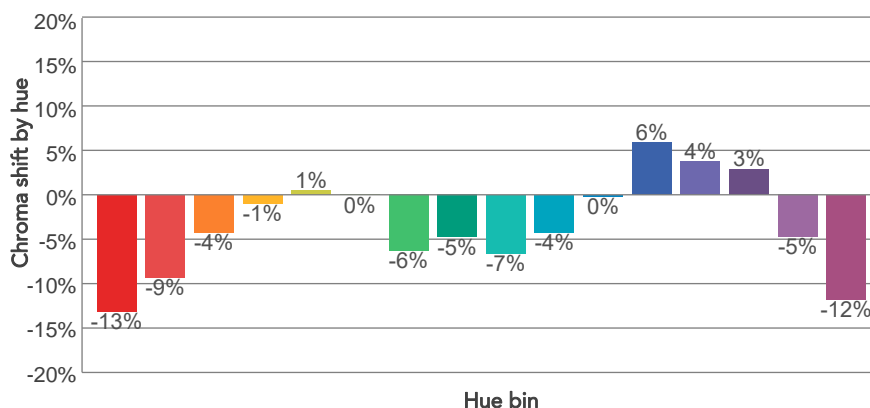
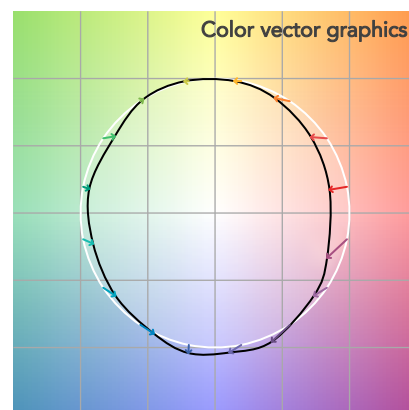
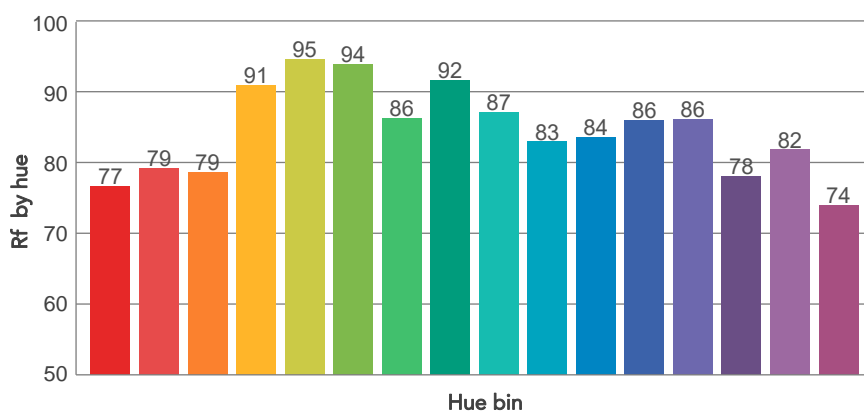
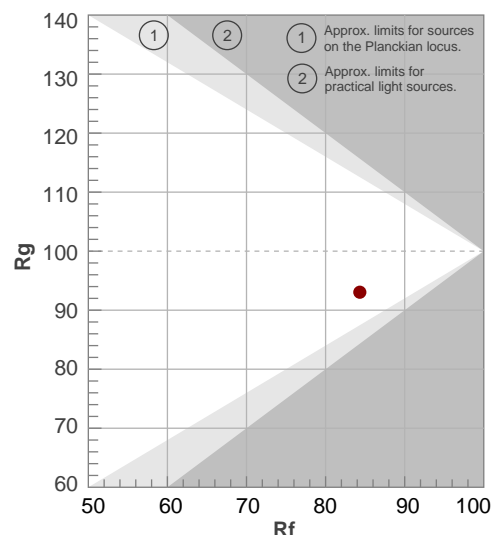
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2838 K	80,1	-7,2	84,3	93,0	80,8	63	0,452	0,414	0,0021

TM30 DETAILS

Rf 84,3
Fidelity index Rf

Rg 93,0
Gammut index

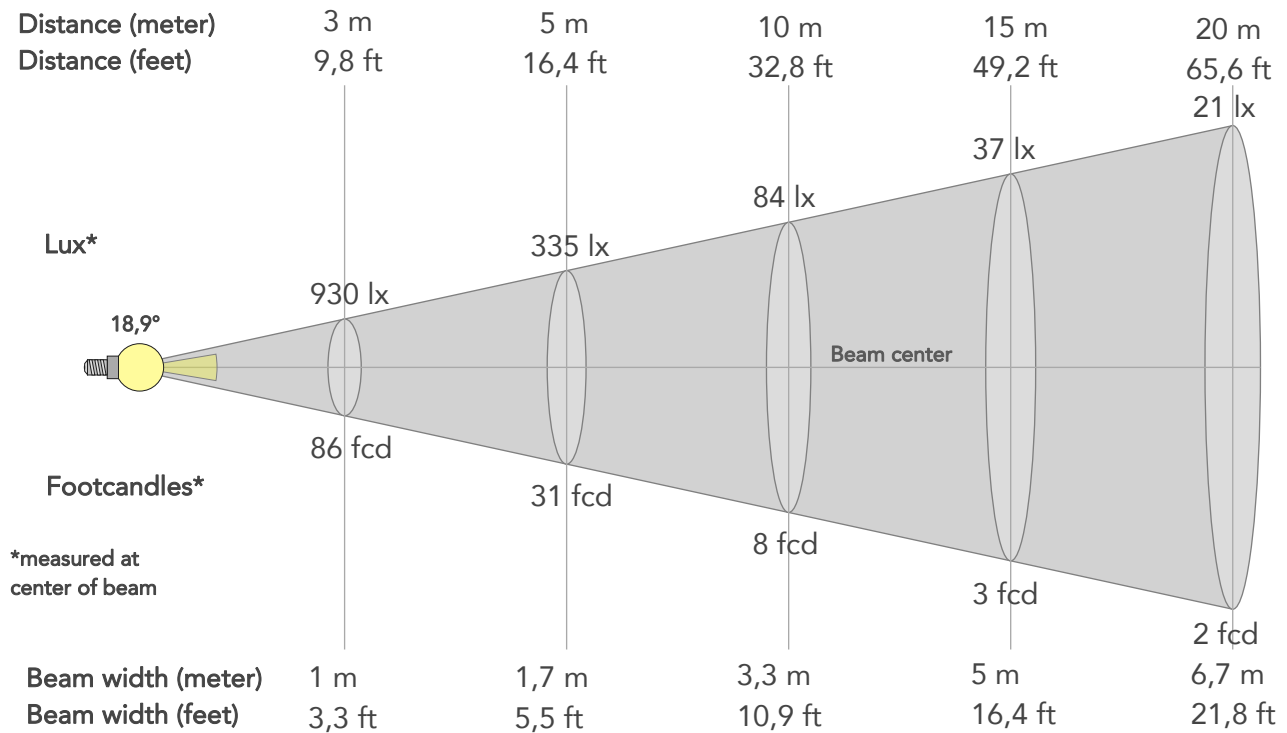
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	77	-13%	0%
2	79	-9%	7%
3	79	-4%	11%
4	91	-1%	5%
5	95	1%	3%
6	94	0%	-3%
7	86	-6%	-6%
8	92	-5%	1%
9	87	-7%	5%
10	83	-4%	10%
11	84	0%	12%
12	86	6%	1%
13	86	4%	-10%
14	78	3%	-18%
15	82	-5%	-10%
16	74	-12%	-16%



BEAM DETAILS



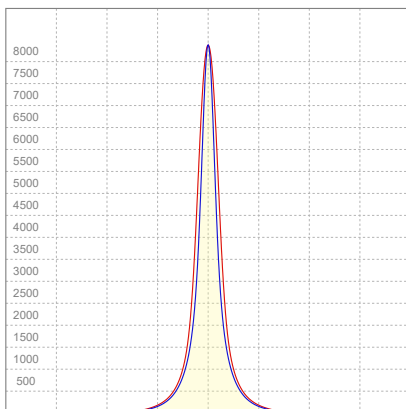
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18,9°	46,9°	83,3°	98,3%	91,5%



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	8369lx	2092lx	930lx	523lx	335lx	149lx	84lx	37lx	21lx	13lx	9lx	5lx	3lx
Footcand.	778fcd	194fcd	86fcd	49fcd	31fcd	14fcd	8fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,3m	0,7m	1m	1,3m	1,7m	2,5m	3,3m	5m	6,7m	8,3m	10m	13,3m	16,6m
Beam wid.	1,1ft	2,2ft	3,3ft	4,4ft	5,5ft	8,2ft	10,9ft	16,4ft	21,8ft	27,3ft	32,7ft	43,6ft	54,6ft

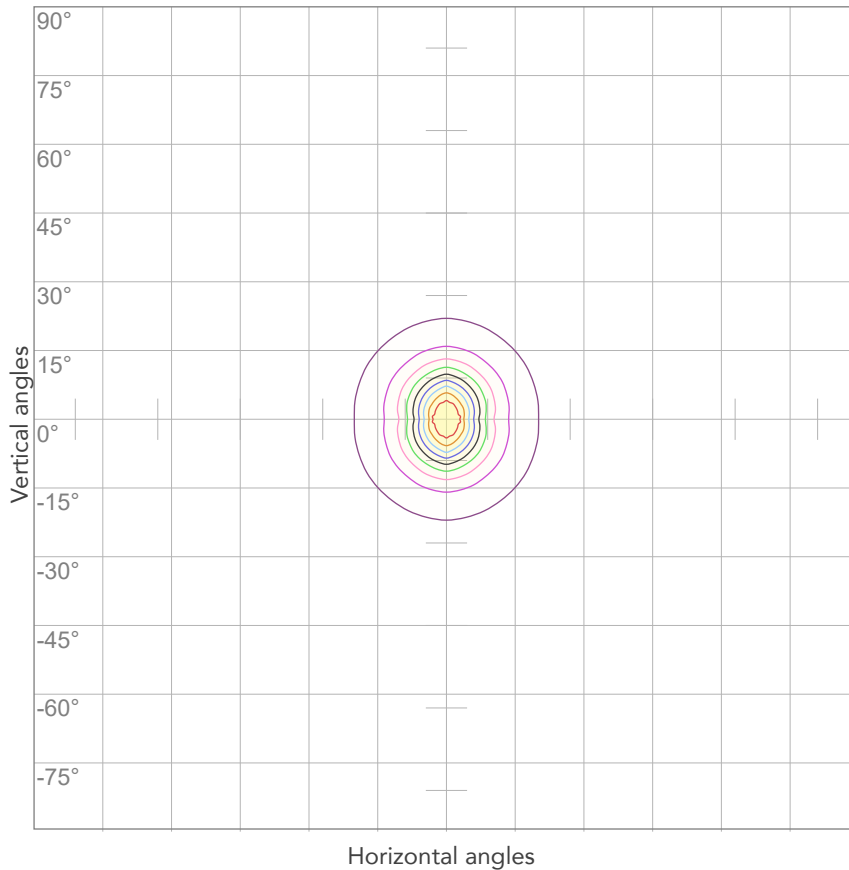
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,194A	41,5W	47lm/W

ISO CANDELA DIAGRAM



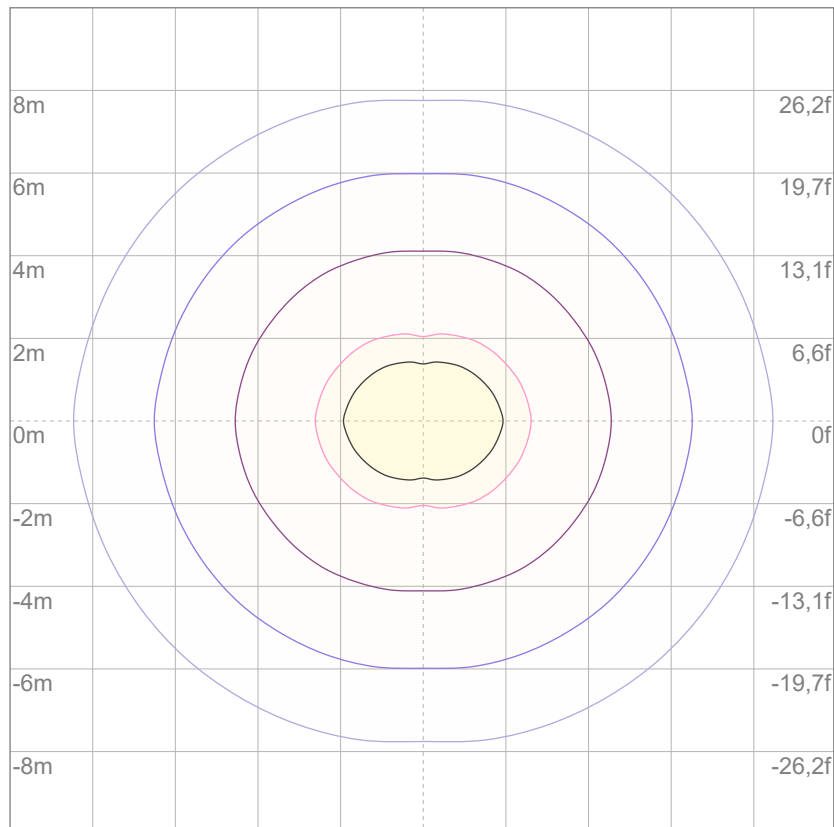
10%	837 cd
20%	1674 cd
30%	2511 cd
40%	3348 cd
50%	4185 cd
60%	5022 cd
70%	5859 cd
80%	6695 cd

Conditions:

Number of c-planes: 4

Candela at center: 8369 cd

ISO LUX DIAGRAM



3%	2,51 lx
5%	4,18 lx
10%	8,37 lx
30%	25,1 lx
50%	41,8 lx

Conditions:

Number of c-planes: 4

Lux at center: 83,7 lx

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

Total lumen output:

1775 lm

Peak candela output:

3367 cd

Light quality:

CRI: 80,2

Color temperature:

2837 K



PRODUCT NAME:

ARCSHINES18VW

MEASURAMENT CONDITIONS:

Beam angle:

15°+ Filter 20°

Target:

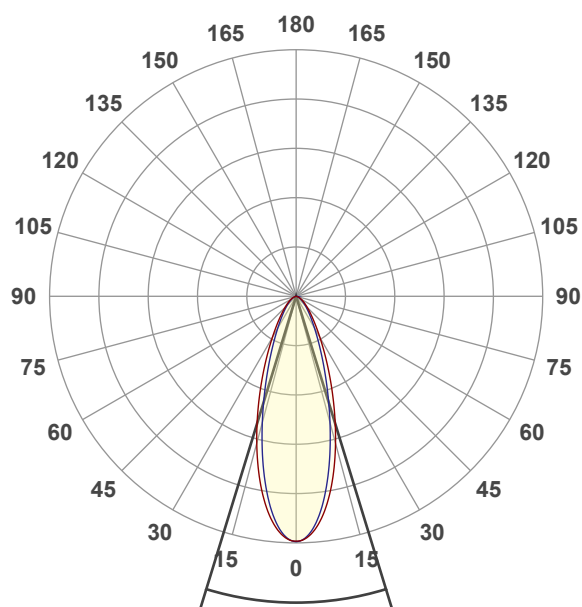
Warm White

Operator:

Paolo Carvone

Date and time:

08/09/2022 13:15:51

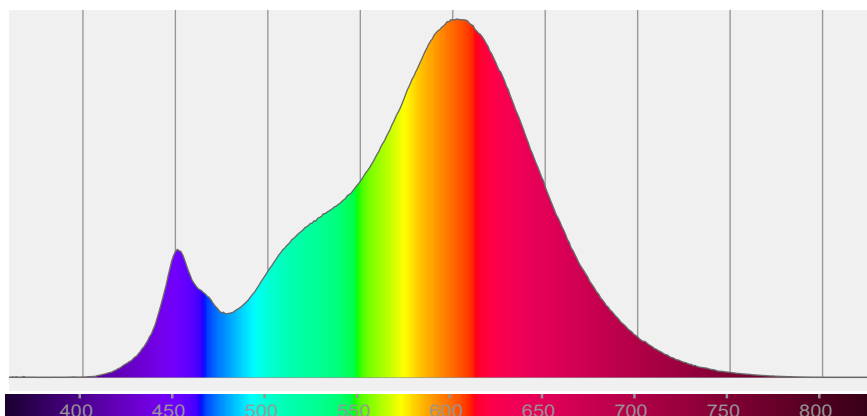


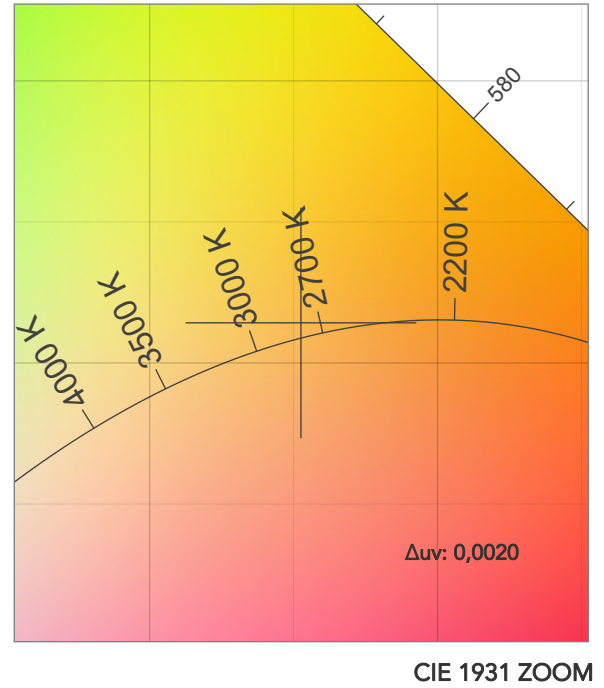
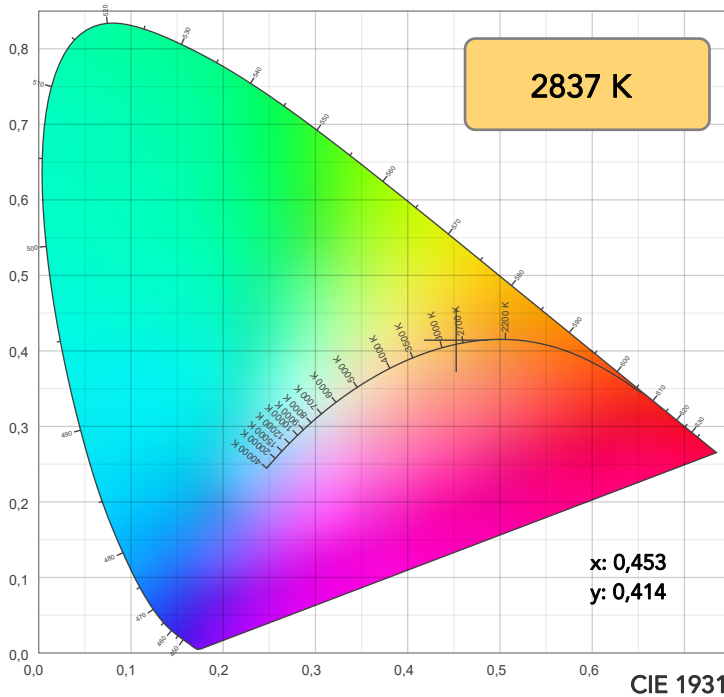
Beam angle 50%: 34,1°

Field angle 10%: 73,9°

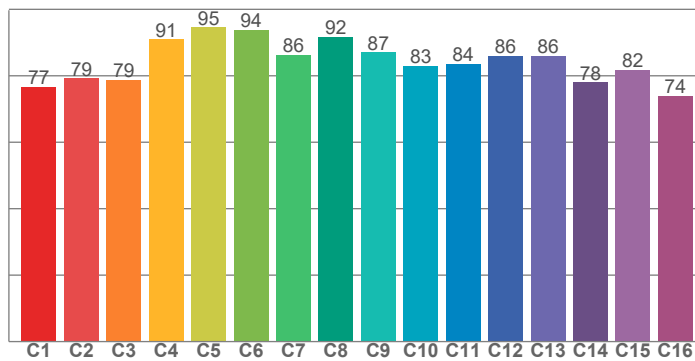
Cut off angle 2.5%: 115,1°

Spectra

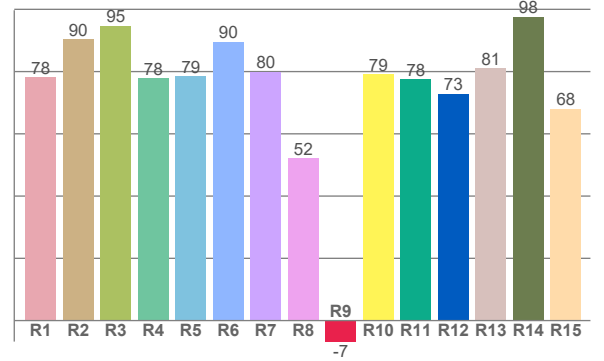




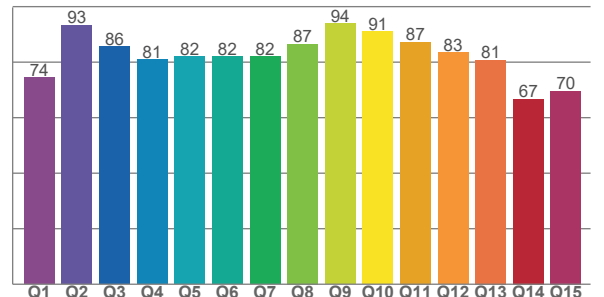
TM30: 84,4



CRI: 80,2 (R1-R8)



CQS: 80,9



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	90,4	94,7	77,9	78,6	89,6	80,0	52,1	-6,8	79,1	77,5	72,9	81,0	97,6	68,0

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
76,7	79,2	78,8	90,9	94,6	93,8	86,3	91,7	87,1	83,0	83,6	86,0	86,0	78,0	81,9	73,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,4	93,3	85,6	81,0	82,0	82,1	82,0	86,6	93,9	91,1	87,2	83,4	80,9	66,8	69,6

COLOR PARAMETERS

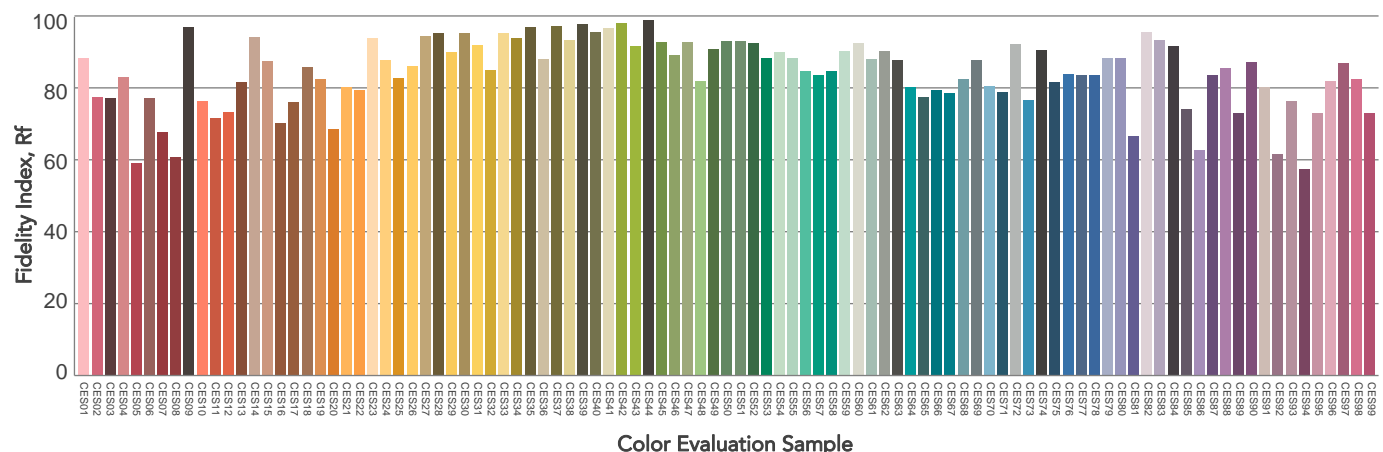
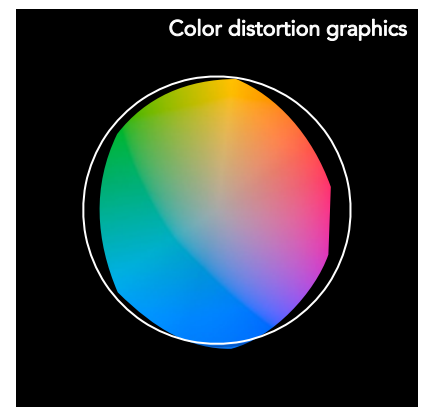
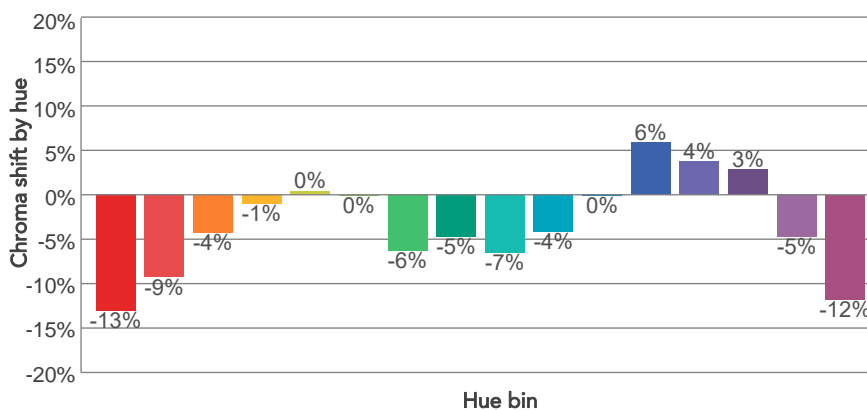
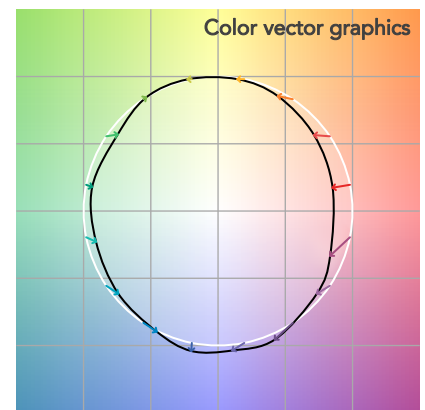
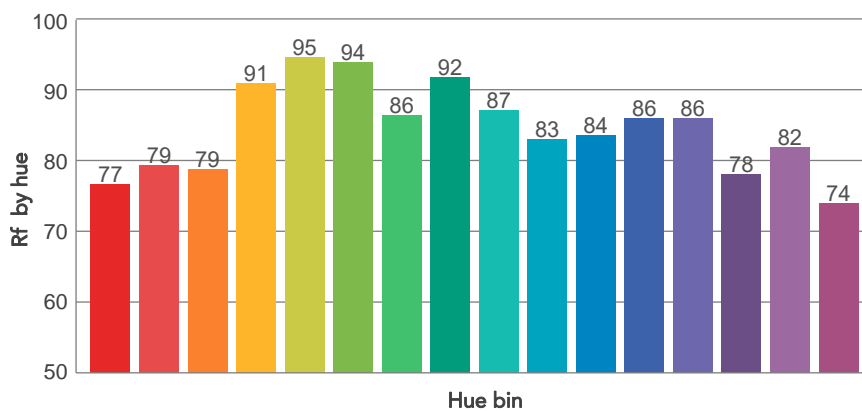
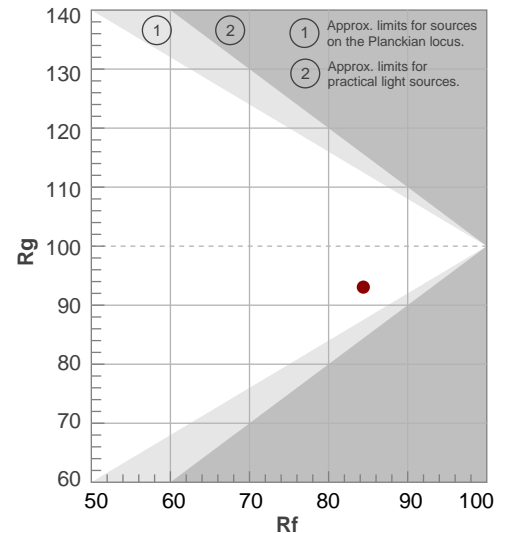
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2837 K	80,2	-6,8	84,4	93,1	80,9	63	0,453	0,414	0,0020

TM30 DETAILS

Rf 84,4
Fidelity index Rf

Rg 93,1
Gammut index

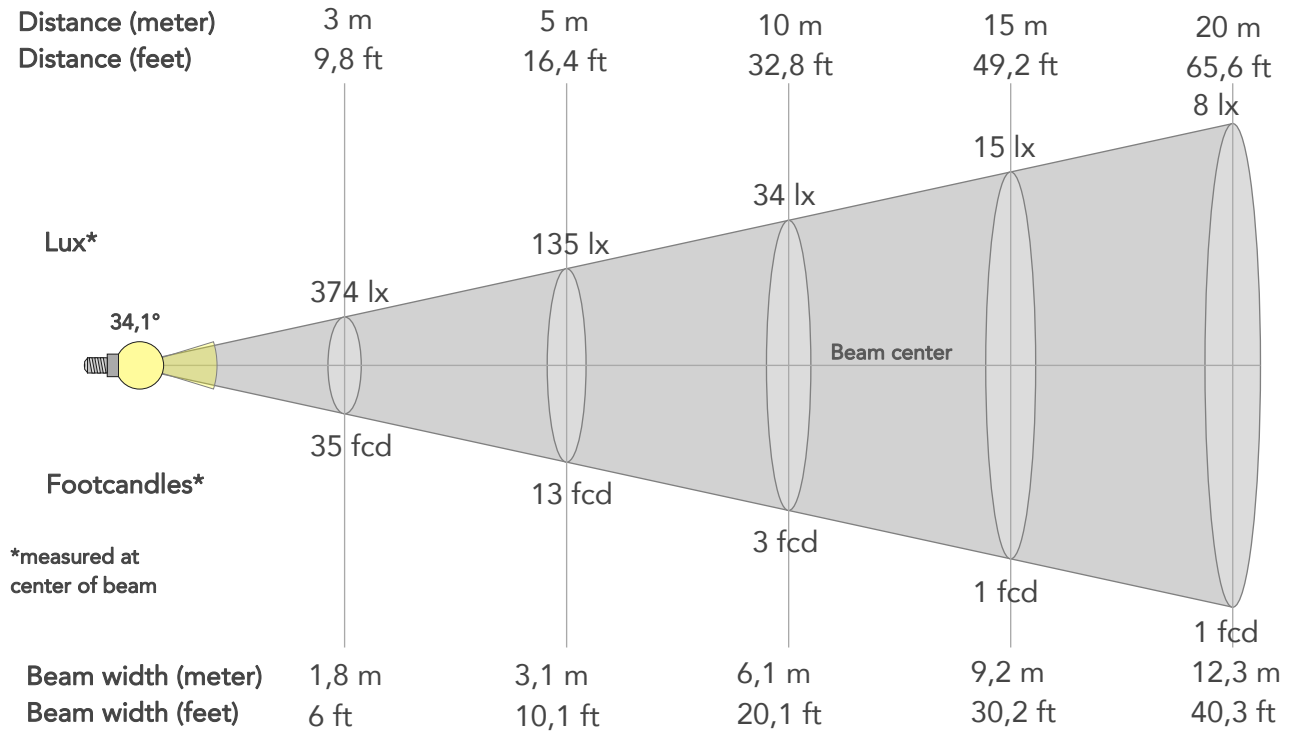
		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	77	-13%	0%
2	79	-9%	7%
3	79	-4%	10%
4	91	-1%	5%
5	95	0%	3%
6	94	0%	-3%
7	86	-6%	-6%
8	92	-5%	1%
9	87	-7%	5%
10	83	-4%	10%
11	84	0%	12%
12	86	6%	1%
13	86	4%	-10%
14	78	3%	-18%
15	82	-5%	-10%
16	74	-12%	-16%



BEAM DETAILS



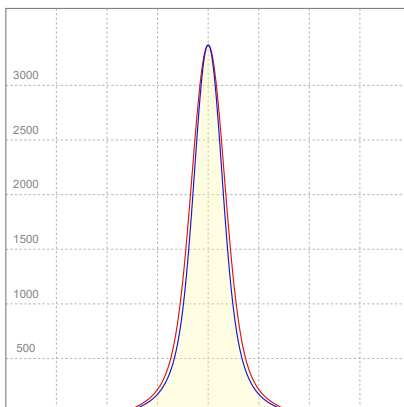
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
34,1°	73,9°	115,1°	96,9%	87,9%



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	3366lx	841lx	374lx	210lx	135lx	60lx	34lx	15lx	8lx	5lx	4lx	2lx	1lx
Footcand.	313fcd	78fcd	35fcd	20fcd	13fcd	6fcd	3fcd	1fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,2m	1,8m	2,5m	3,1m	4,6m	6,1m	9,2m	12,3m	15,3m	18,4m	24,5m	30,7m
Beam wid.	2ft	4ft	6ft	8ft	10,1ft	15,1ft	20,1ft	30,2ft	40,3ft	50,3ft	60,4ft	80,5ft	100,6ft

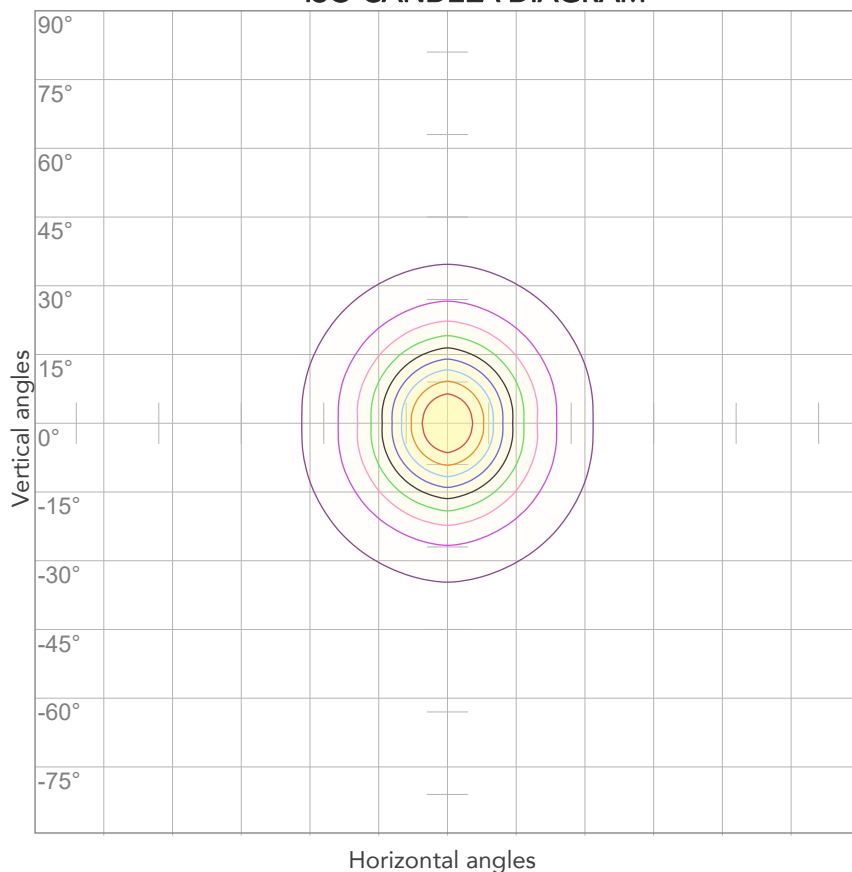
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,193A	41,4W	43lm/W

ISO CANDELA DIAGRAM



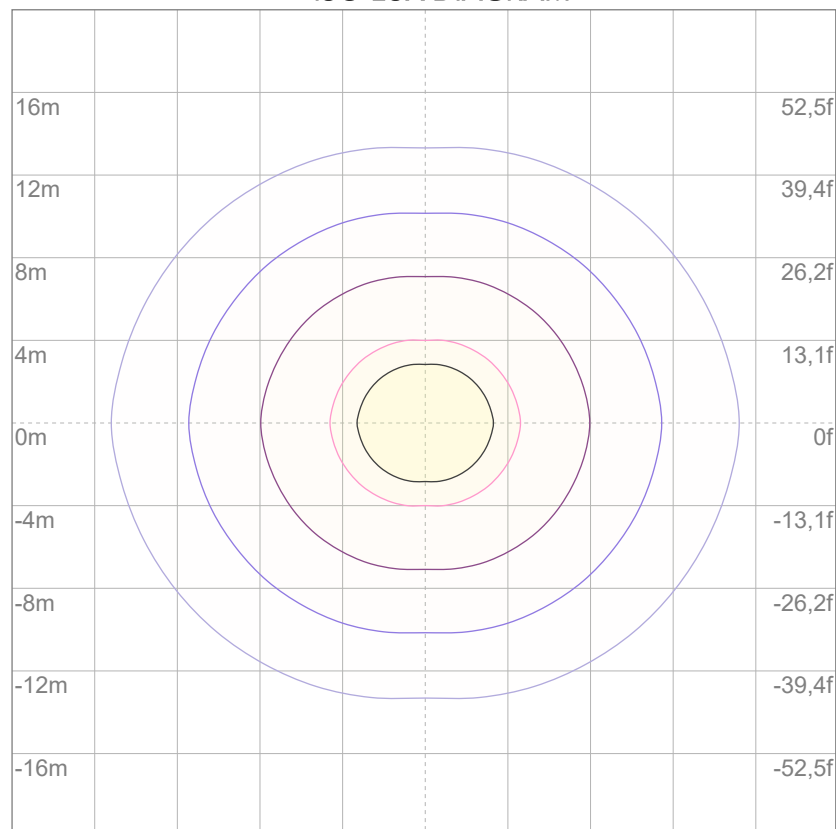
10%	337 cd
20%	673 cd
30%	1010 cd
40%	1346 cd
50%	1683 cd
60%	2019 cd
70%	2356 cd
80%	2693 cd

Conditions:

Number of c-planes: 4

Candela at center: 3366 cd

ISO LUX DIAGRAM



3%	1,01 lx
5%	1,68 lx
10%	3,37 lx
30%	10,1 lx
50%	16,8 lx

Conditions:

Number of c-planes: 4

Lux at center: 33,7 lx

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

Total lumen output:

1735 lm

Peak candela output:

1228 cd

Light quality:

CRI: 80,5

Color temperature:

2853 K



PRODUCT NAME:

ARCSHINES18VW

MEASURAMENT CONDITIONS:

Beam angle:

15°+ Filter 60°

Target:

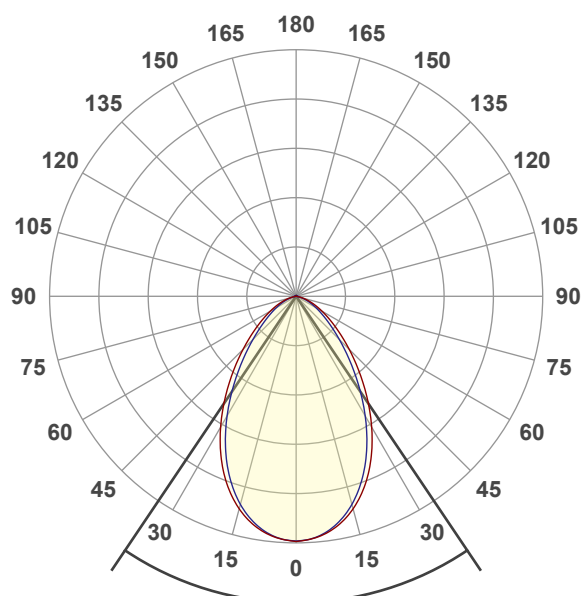
Warm White

Operator:

Paolo Carvone

Date and time:

08/09/2022 13:21:28

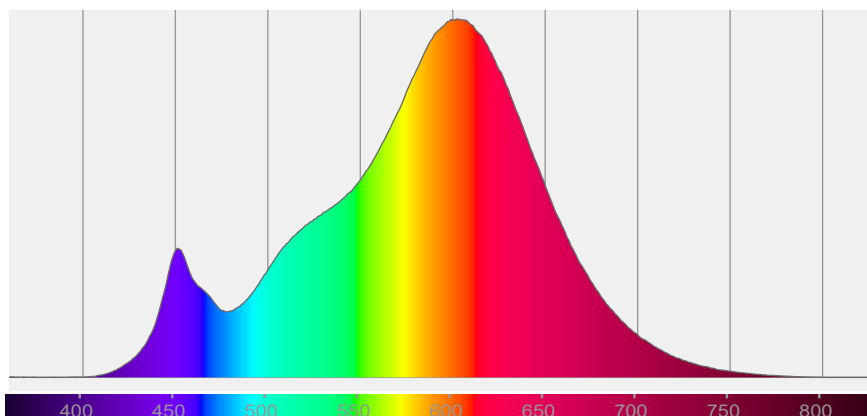


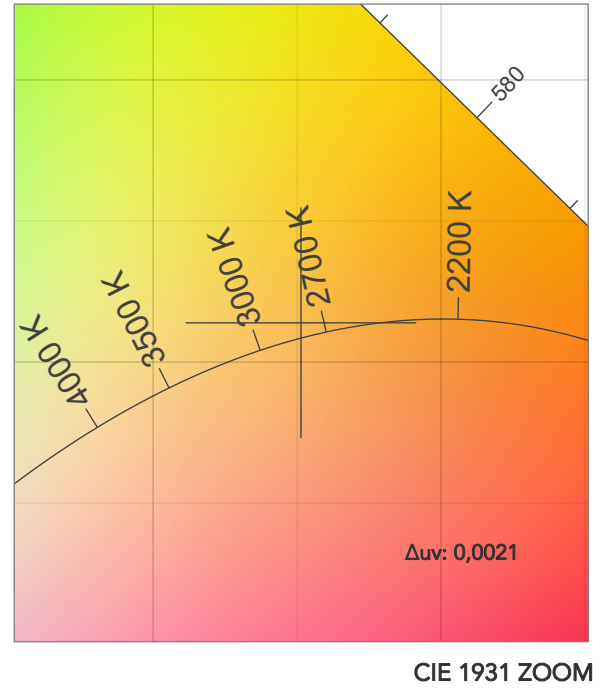
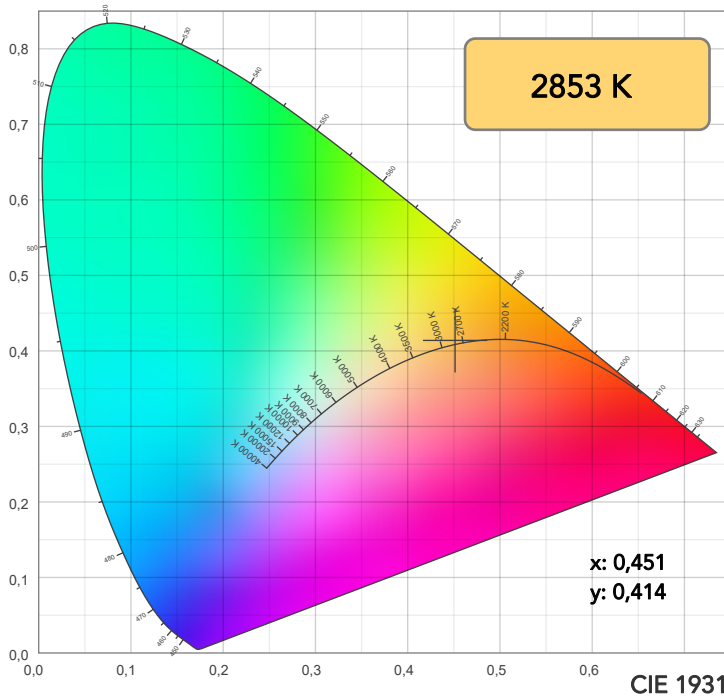
Beam angle 50%: 67,9°

Field angle 10%: 122°

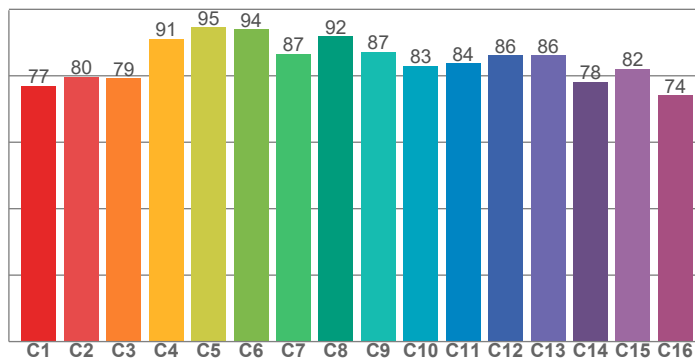
Cut off angle 2.5%: 149,1°

Spectra

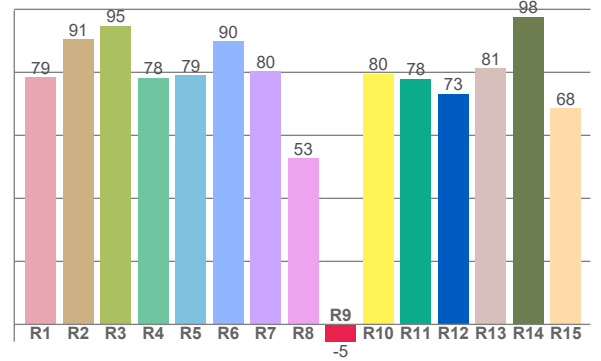




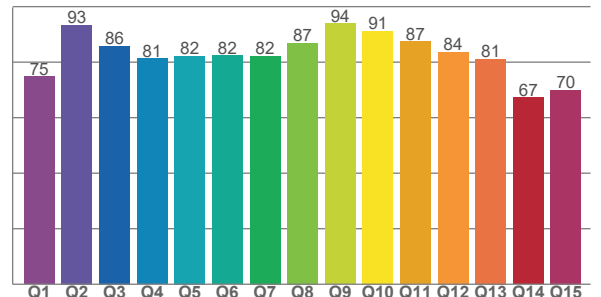
TM30: 84,6



CRI: 80,5 (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
78,5	90,6	94,8	78,3	79,0	89,9	80,2	52,8	-5,5	79,5	78,0	73,2	81,4	97,6	68,5

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	79,2	91,1	94,6	94,0	86,5	91,8	87,2	83,1	83,8	86,2	86,1	78,2	82,1	74,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,7	93,3	85,8	81,2	82,2	82,4	82,3	86,8	93,9	91,3	87,5	83,7	81,2	67,2	70,0

COLOR PARAMETERS

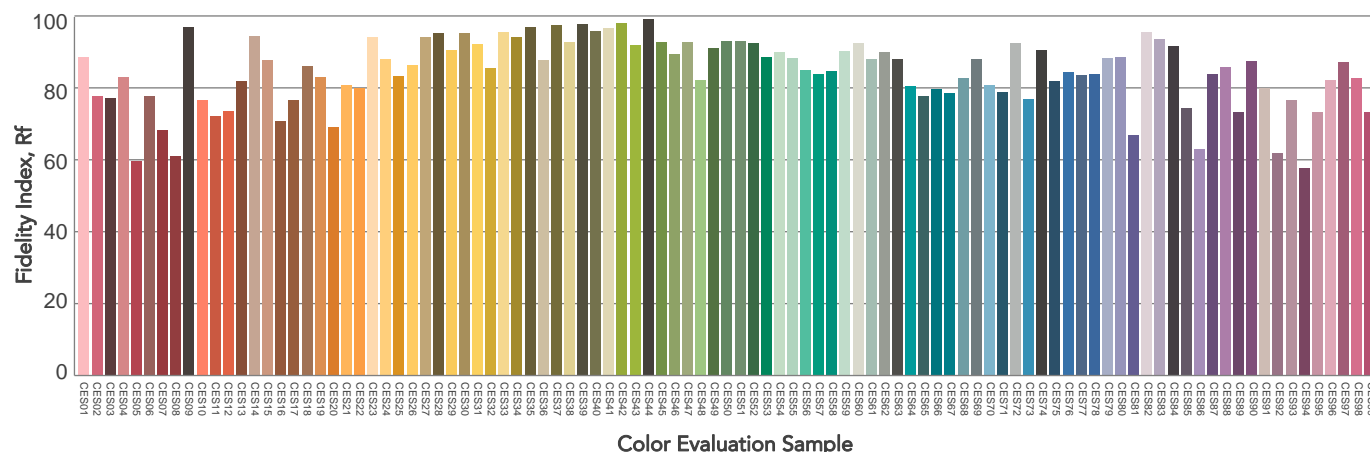
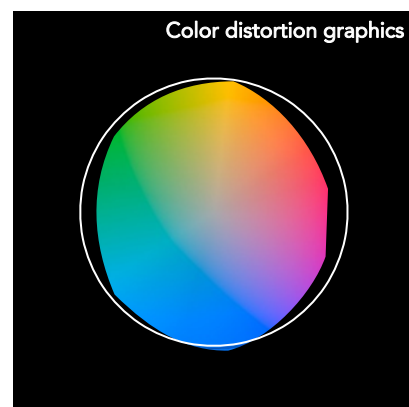
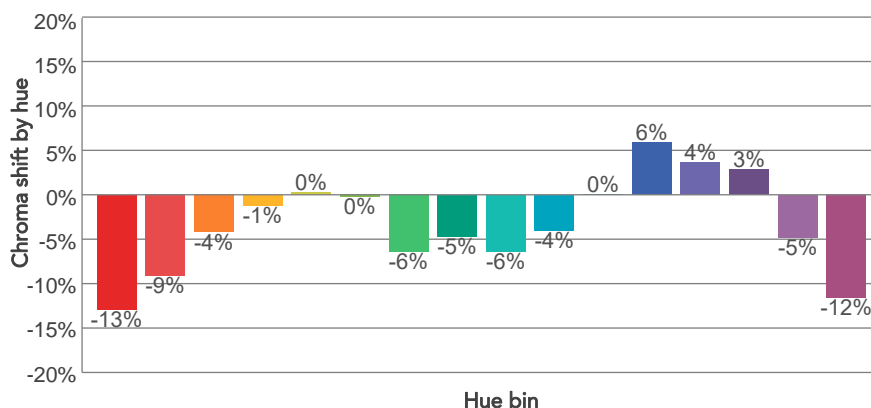
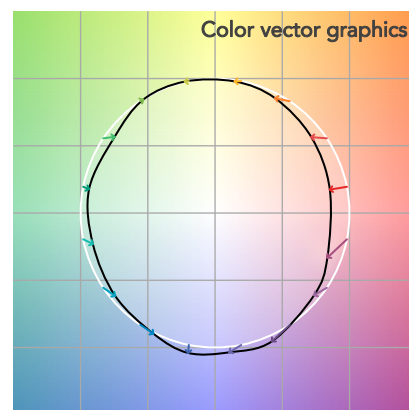
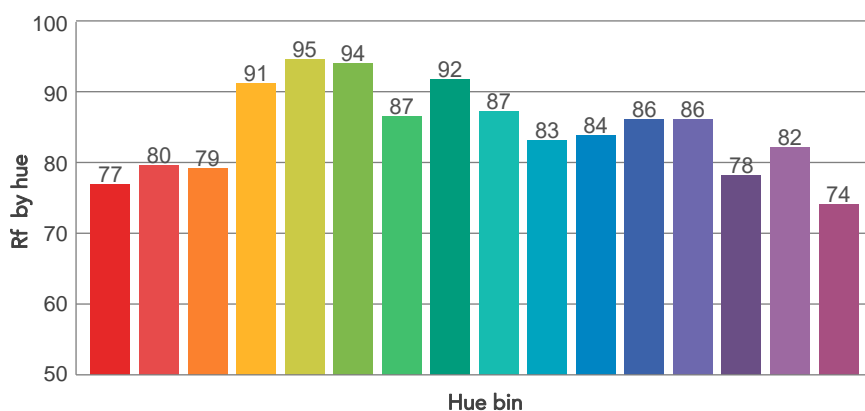
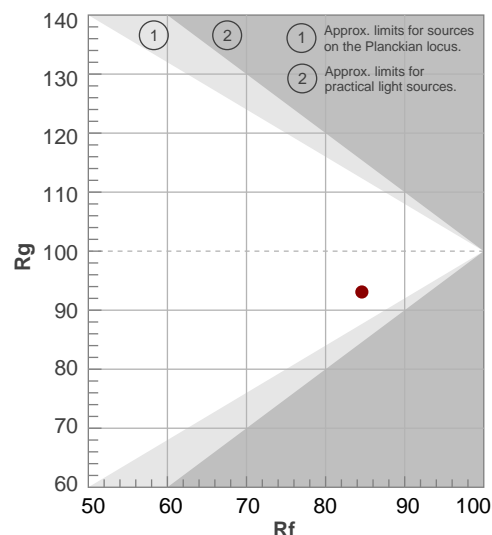
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2853 K	80,5	-5,5	84,6	93,1	81,2	64	0,451	0,414	0,0021

TM30 DETAILS

Rf 84,6
Fidelity index Rf

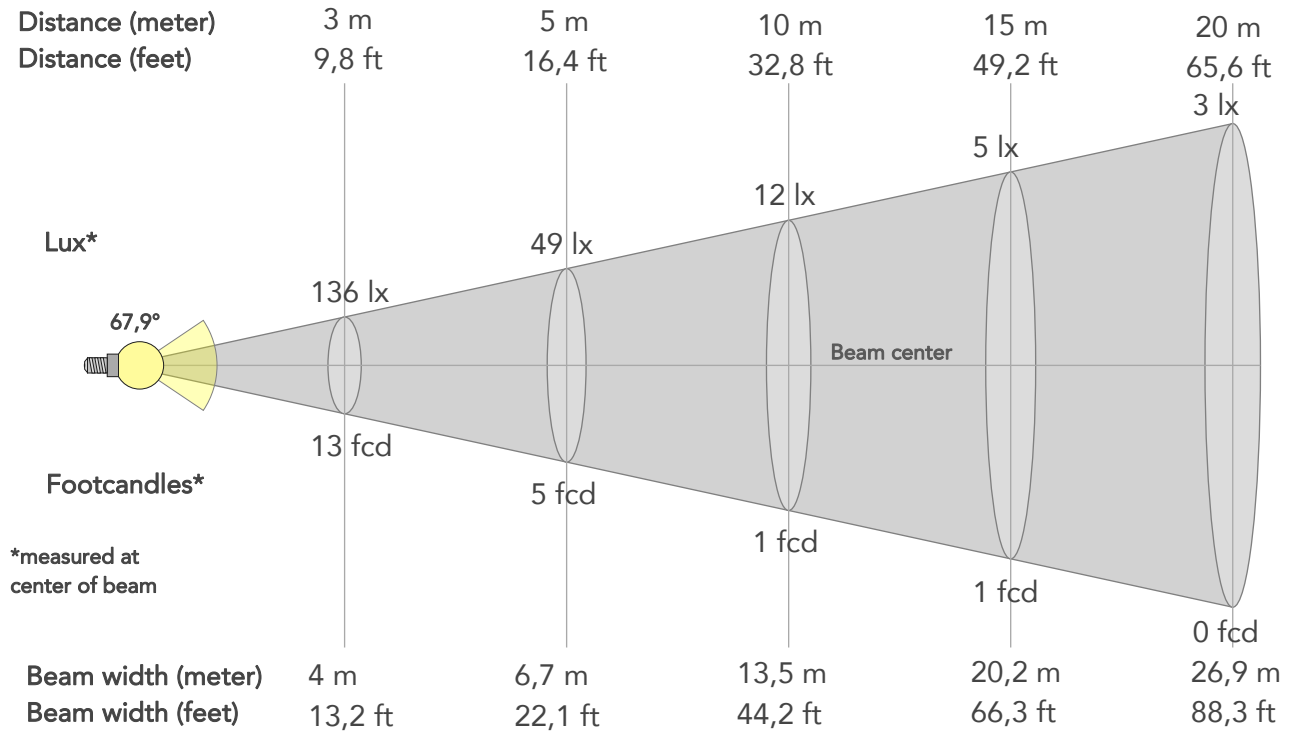
Rg 93,1
Gammut index

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

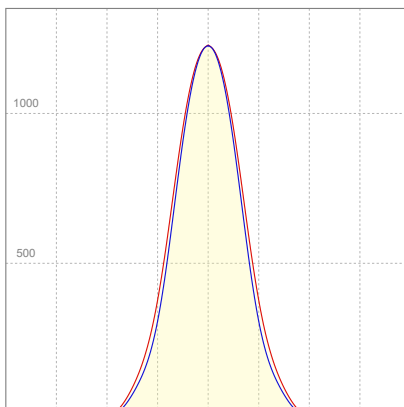
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
67,9°	122°	149,1°	92,8%	76,3%



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	1227lx	307lx	136lx	77lx	49lx	22lx	12lx	5lx	3lx	2lx	1lx	1lx	0lx
Footcand.	114fcd	28fcd	13fcd	7fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,3m	2,7m	4m	5,4m	6,7m	10,1m	13,5m	20,2m	26,9m	33,7m	40,4m	53,9m	67,3m
Beam wid.	4,4ft	8,9ft	13,2ft	17,6ft	22,1ft	33,1ft	44,2ft	66,3ft	88,3ft	110,4ft	132,5ft	176,7ft	220,9ft

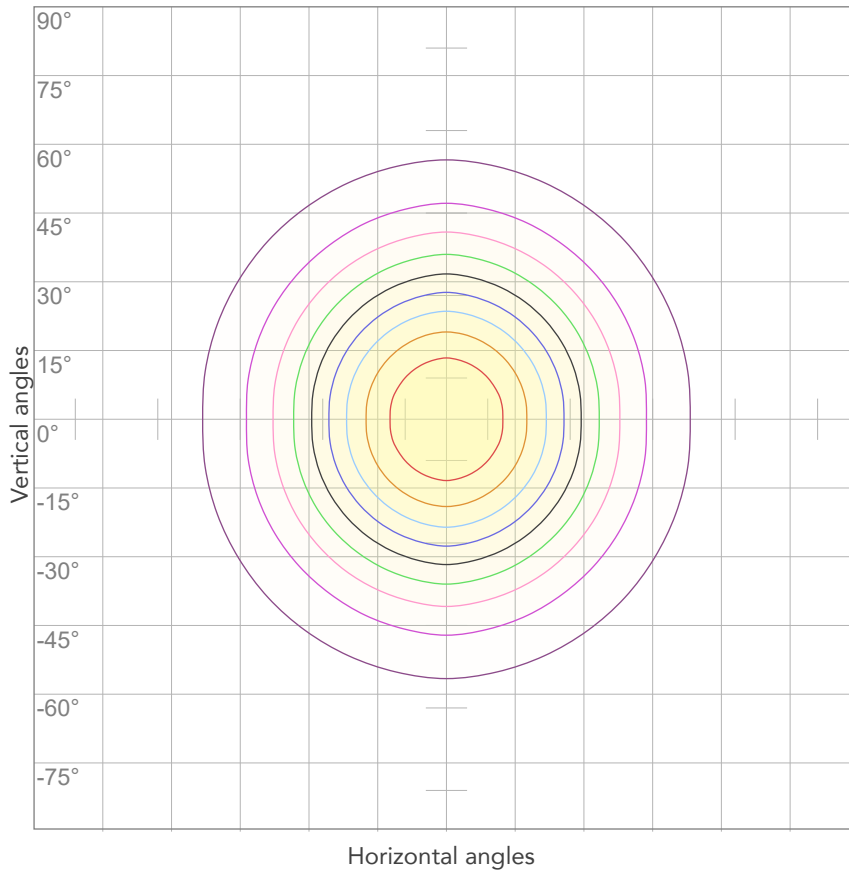
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,194A	41,4W	42lm/W

ISO CANDELA DIAGRAM



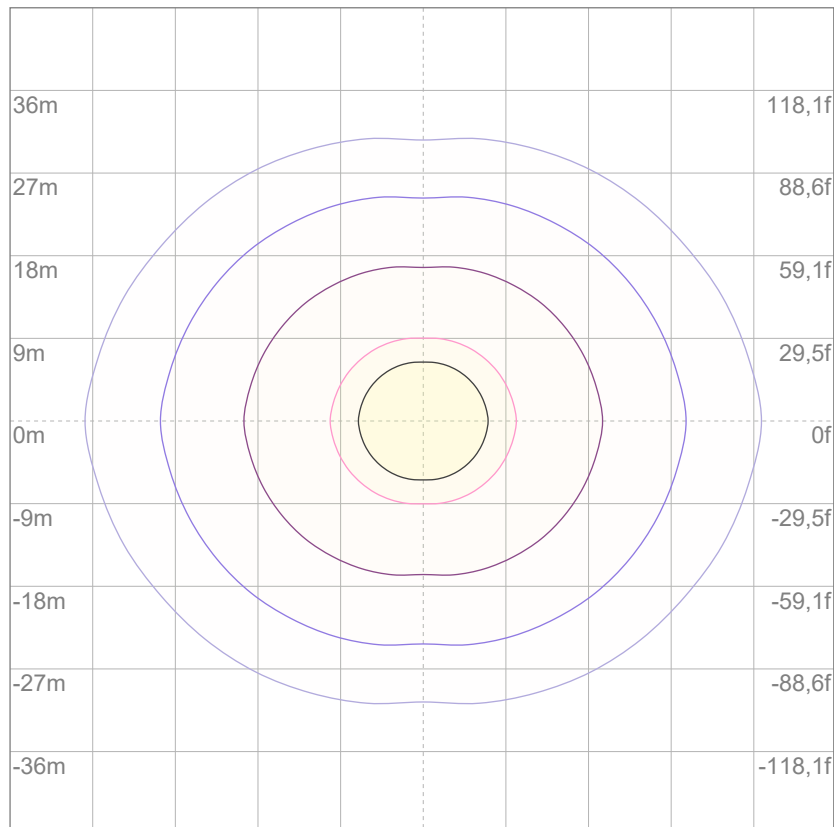
10%	123 cd
20%	245 cd
30%	368 cd
40%	491 cd
50%	613 cd
60%	736 cd
70%	859 cd
80%	981 cd

Conditions:

Number of c-planes: 4

Candela at center: 1227 cd

ISO LUX DIAGRAM



3%	0,368 lx
5%	0,613 lx
10%	1,23 lx
30%	3,68 lx
50%	6,13 lx

Conditions:

Number of c-planes: 4

Lux at center: 12,3 lx

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

Total lumen output:

2230 lm

Peak candela output:

2400 cd

Light quality:

CRI: 80,2

Color temperature:

2837 K



PRODUCT NAME:

ARCSHINES18VW

MEASURAMENT CONDITIONS:

Beam angle:

15°+ Filter 10°x60°

Target:

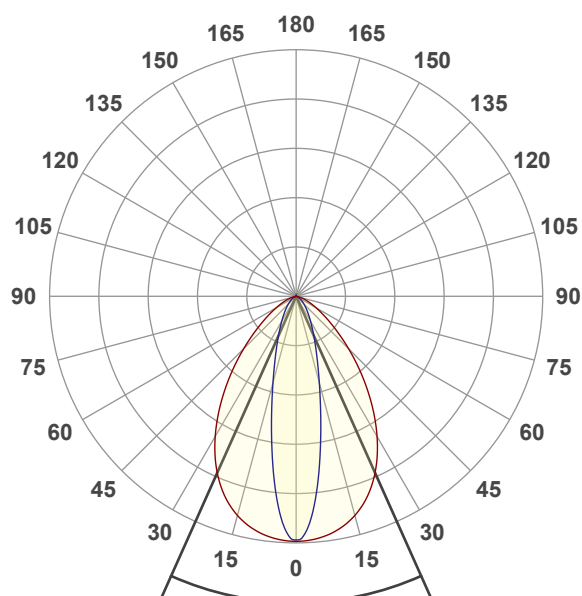
Warm White

Operator:

Paolo Carvone

Date and time:

08/09/2022 13:07:53

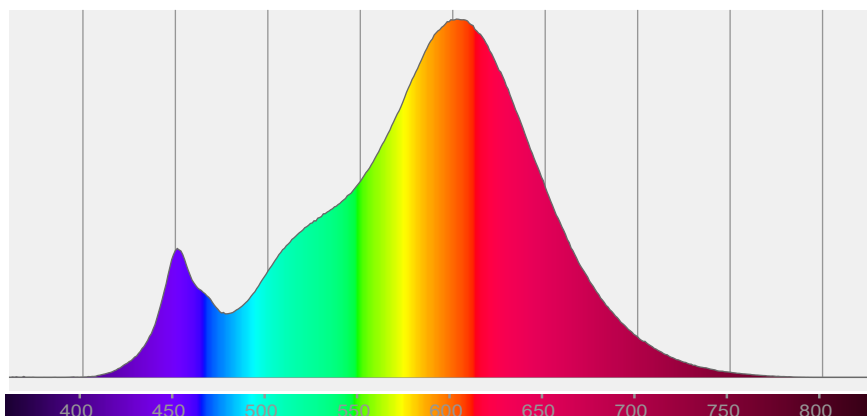


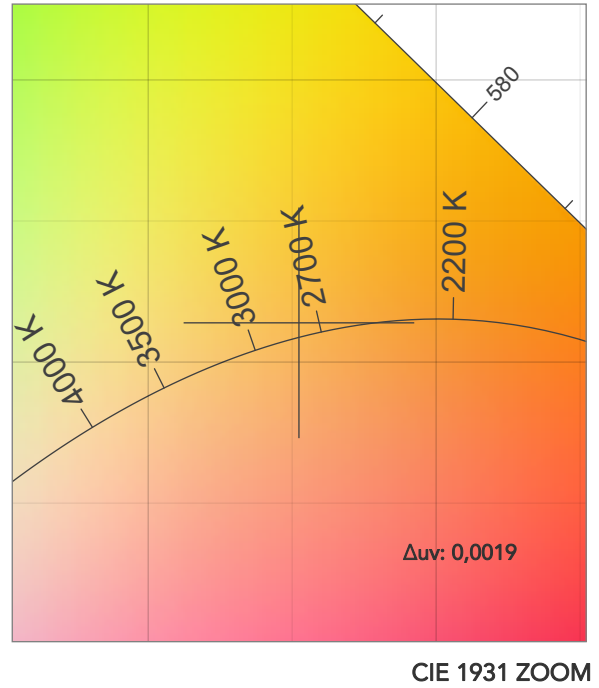
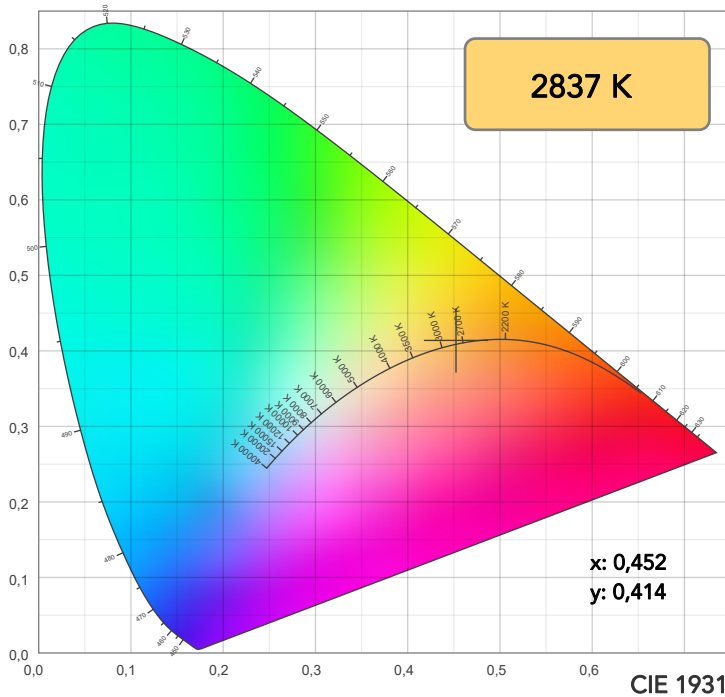
Beam angle 50%: 48,2°

Field angle 10%: 91,9°

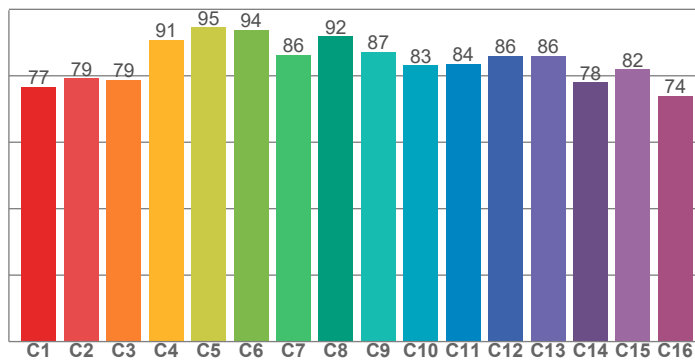
Cut off angle 2.5%: 126,9°

Spectra

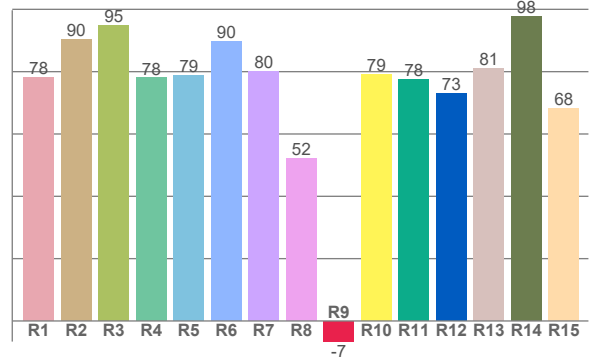




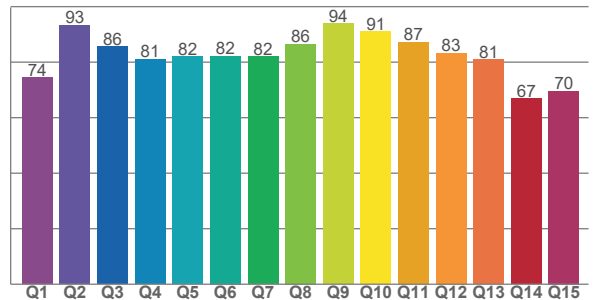
TM30: 84,4



CRI: 80,2 (R1-R8)



CQS: 80,9



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
78,2	90,4	94,7	78,0	78,7	89,7	80,0	52,1	-6,6	79,2	77,6	73,0	81,1	97,6	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
76,7	79,3	78,7	90,9	94,6	93,8	86,3	91,8	87,2	83,1	83,6	85,9	86,0	78,0	81,9	74,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,4	93,3	85,6	81,0	82,1	82,2	82,0	86,5	93,8	91,0	87,2	83,4	80,9	66,8	69,6

COLOR PARAMETERS

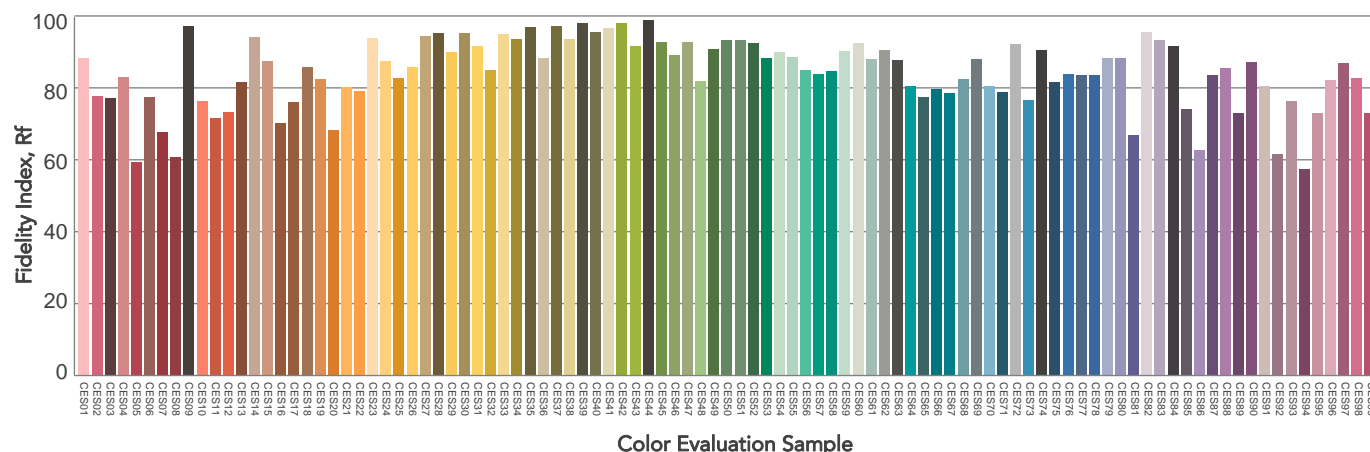
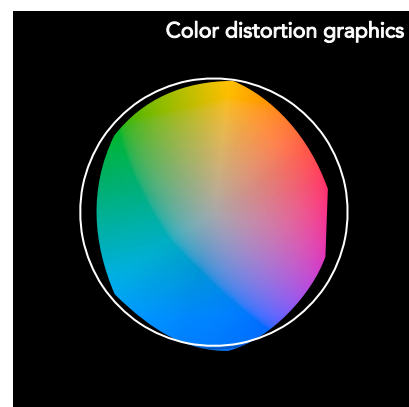
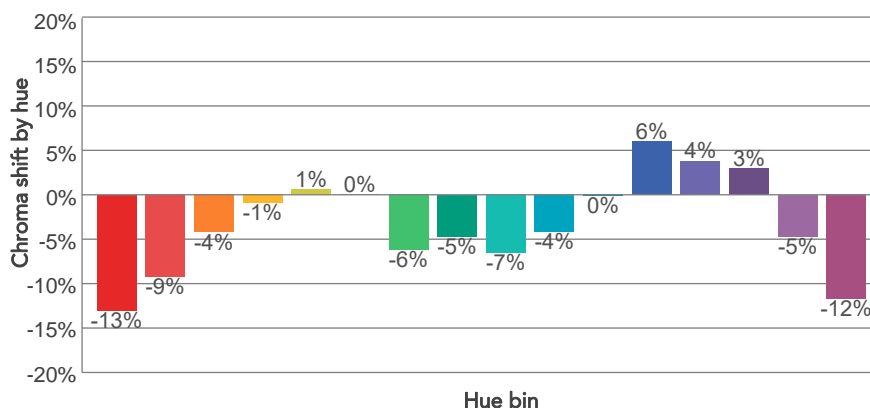
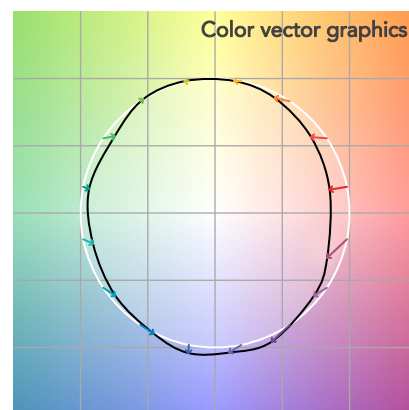
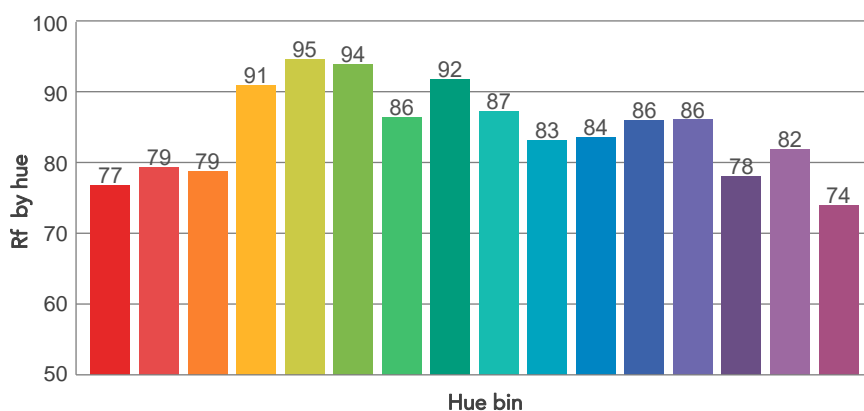
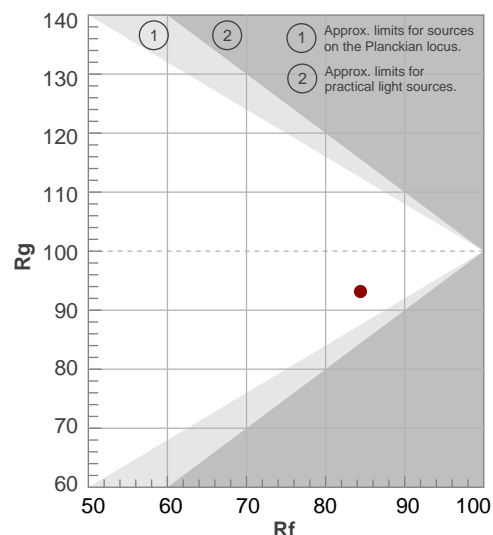
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2837 K	80,2	-6,6	84,4	93,2	80,9	63	0,452	0,414	0,0019

TM30 DETAILS

Rf 84,4
Fidelity index Rf

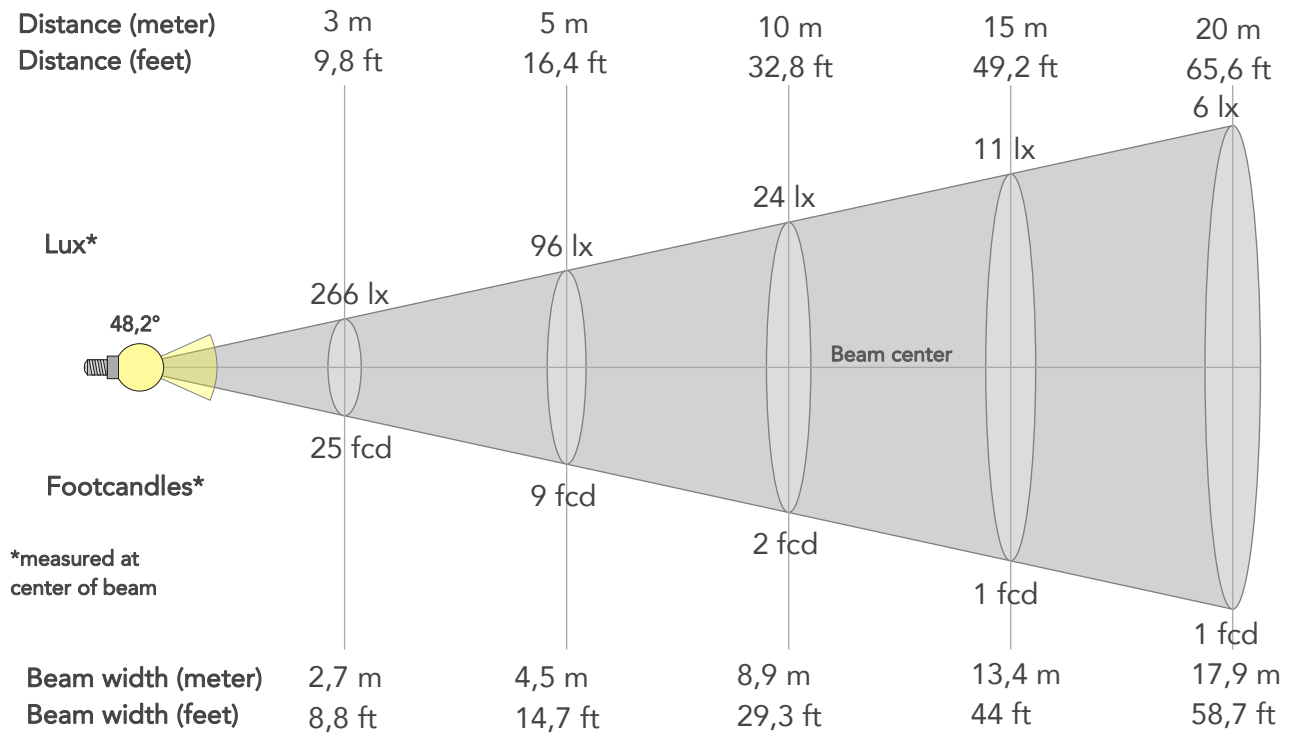
Rg 93,2
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	77	-13%	0%
2	79	-9%	7%
3	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	-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

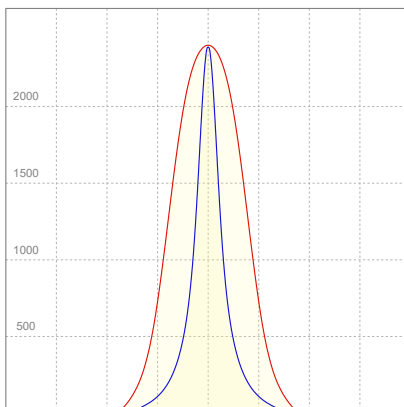
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
48,2°	91,9°	126,9°	95,1%	80,6%



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	2391lx	598lx	266lx	149lx	96lx	43lx	24lx	11lx	6lx	4lx	3lx	1lx	1lx
Footcand.	222fcd	56fcd	25fcd	14fcd	9fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,8m	2,7m	3,6m	4,5m	6,7m	8,9m	13,4m	17,9m	22,4m	26,8m	35,8m	44,7m
Beam wid.	3ft	5,9ft	8,8ft	11,7ft	14,7ft	22ft	29,3ft	44ft	58,7ft	73,3ft	88ft	117,3ft	146,6ft

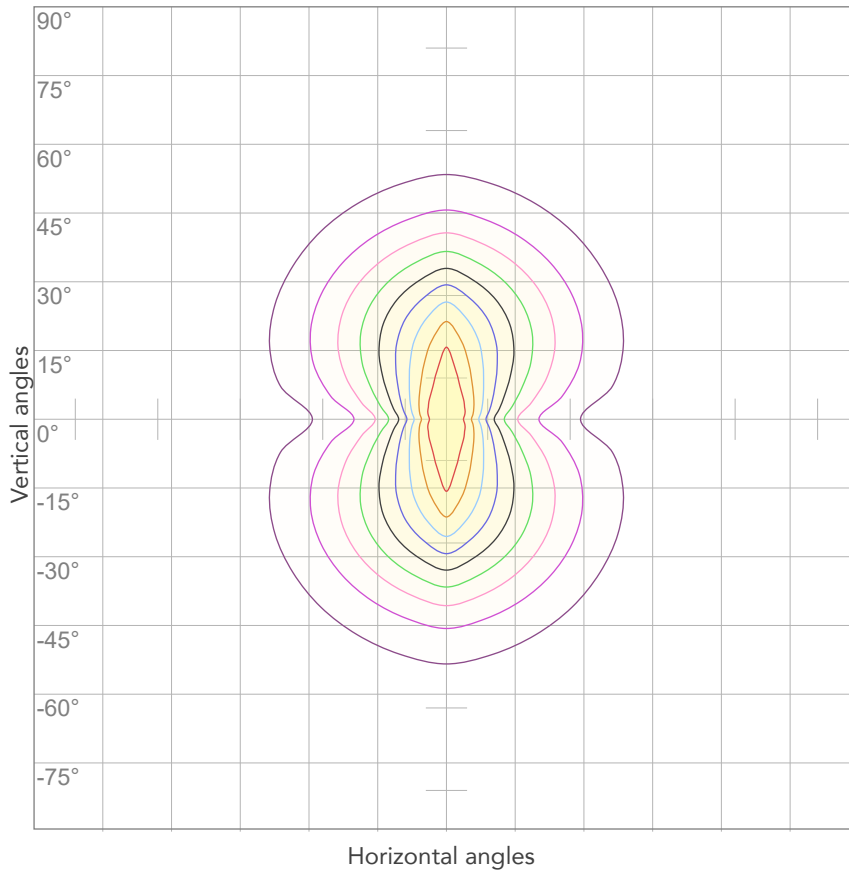
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,195A	41,6W	54lm/W

ISO CANDELA DIAGRAM



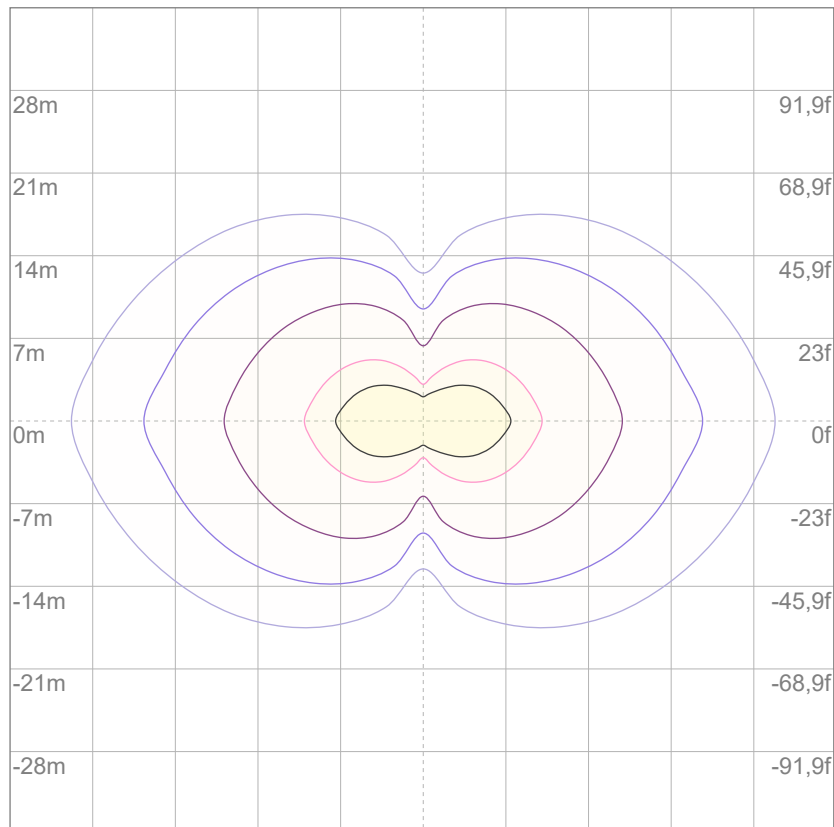
10%	239 cd
20%	478 cd
30%	717 cd
40%	956 cd
50%	1195 cd
60%	1434 cd
70%	1674 cd
80%	1913 cd

Conditions:

Number of c-planes: 4

Candela at center: 2391 cd

ISO LUX DIAGRAM



3%	0,717 lx
5%	1,20 lx
10%	2,39 lx
30%	7,17 lx
50%	12,0 lx

Conditions:

Number of c-planes: 4

Lux at center: 23,9 lx

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

Total lumen output:

1857 lm

Peak candela output:

1553 cd

Light quality:

CRI: 80,4

Color temperature:

2843 K



PRODUCT NAME:

ARCSHINES18VW

MEASURAMENT CONDITIONS:

Beam angle:

15°+ Filter 30°x60°

Target:

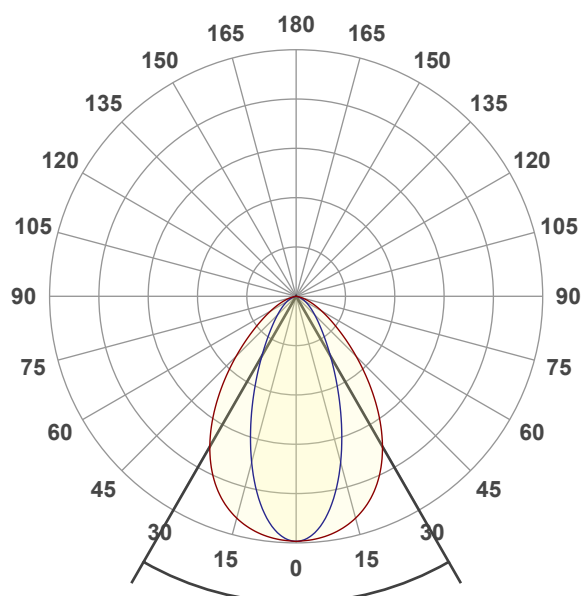
Warm White

Operator:

Paolo Carvone

Date and time:

08/09/2022 13:26:09

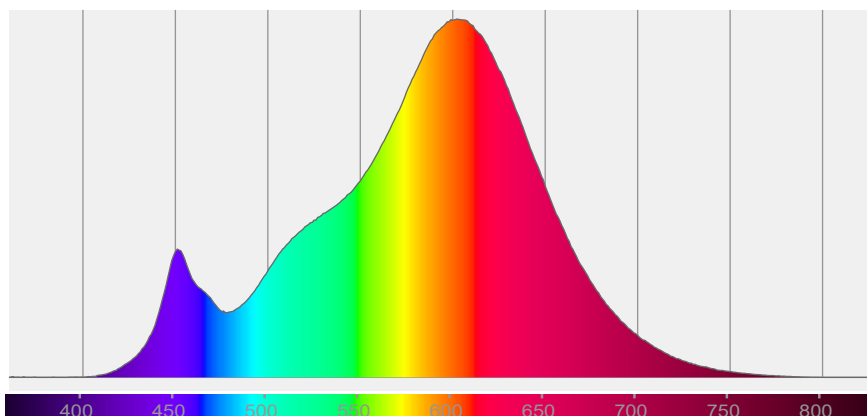


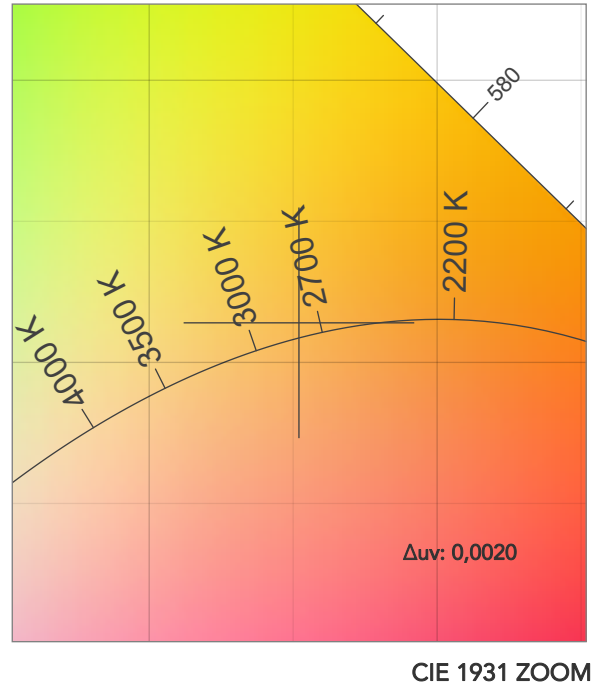
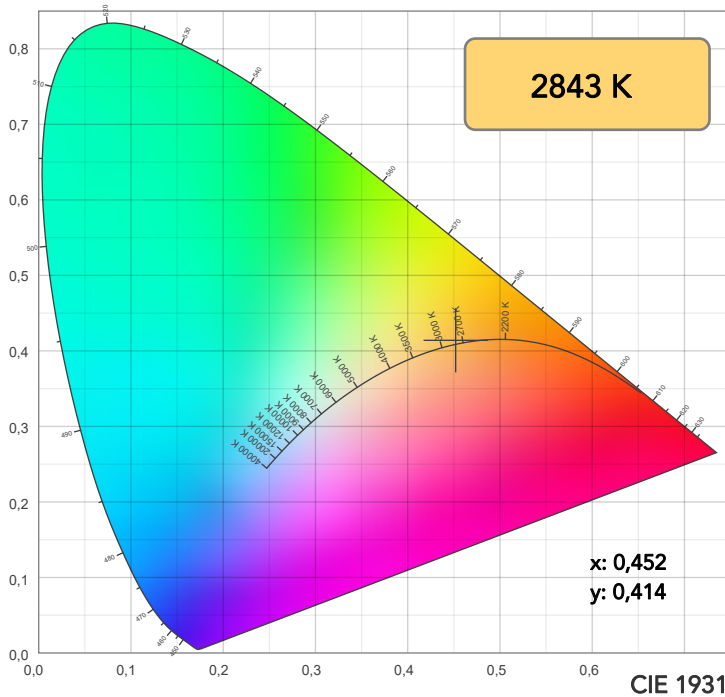
Beam angle 50%: 59,7°

Field angle 10%: 108,6°

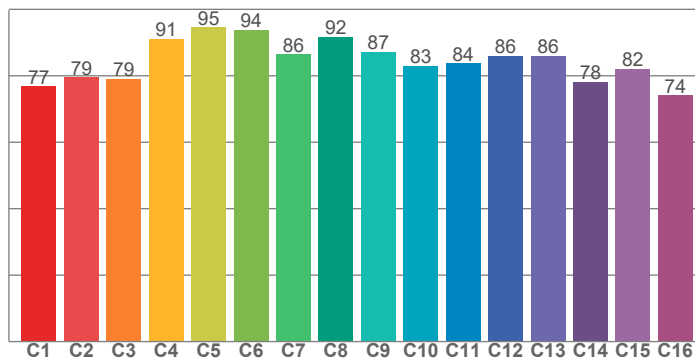
Cut off angle 2.5%: 142°

Spectra

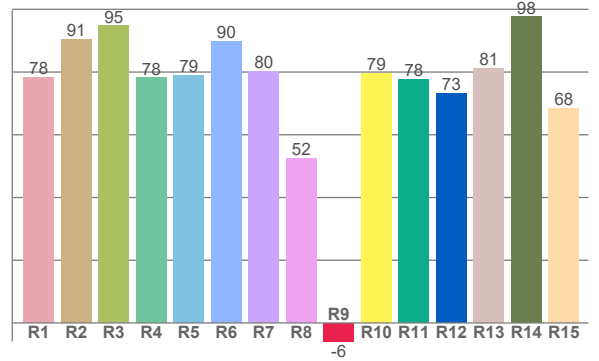




TM30: 84,5



CRI: 80,4 (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
78,4	90,5	94,7	78,1	78,8	89,8	80,1	52,5	-5,9	79,4	77,8	73,1	81,3	97,6	68,3

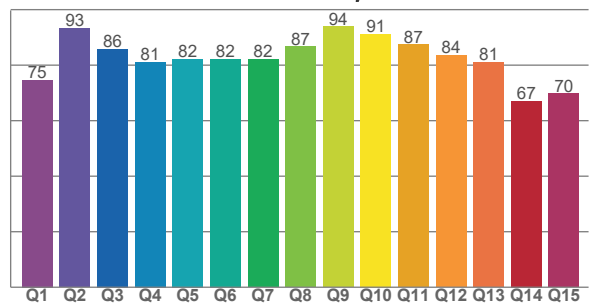
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
76,8	79,5	79,0	91,1	94,6	93,9	86,4	91,7	87,1	83,0	83,7	86,1	86,1	78,1	82,0	74,0

CQS Q values

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

CQS: 81,1



COLOR PARAMETERS

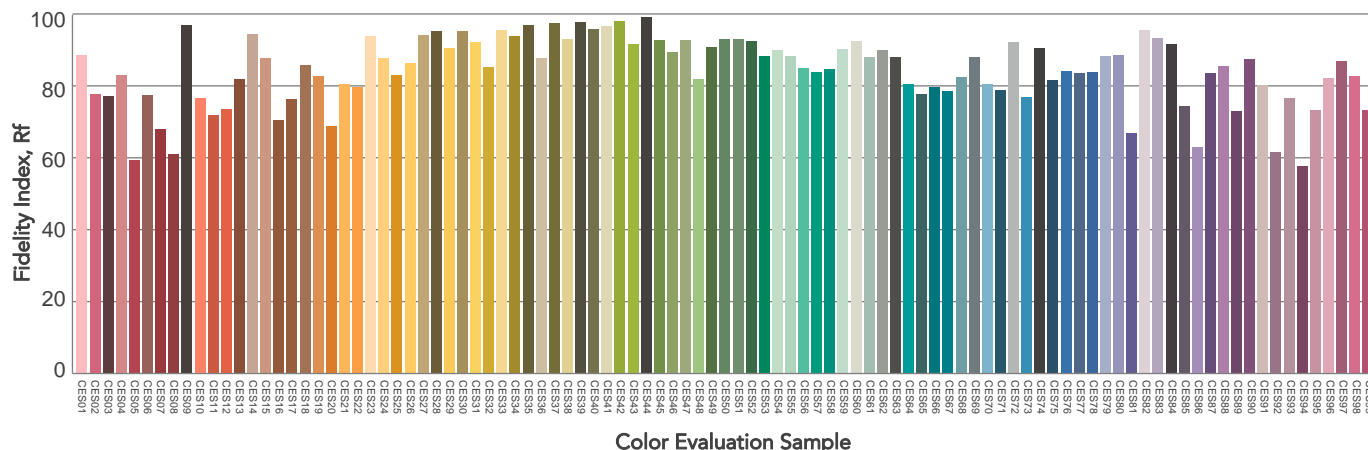
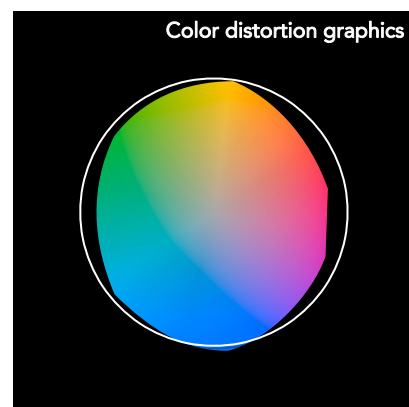
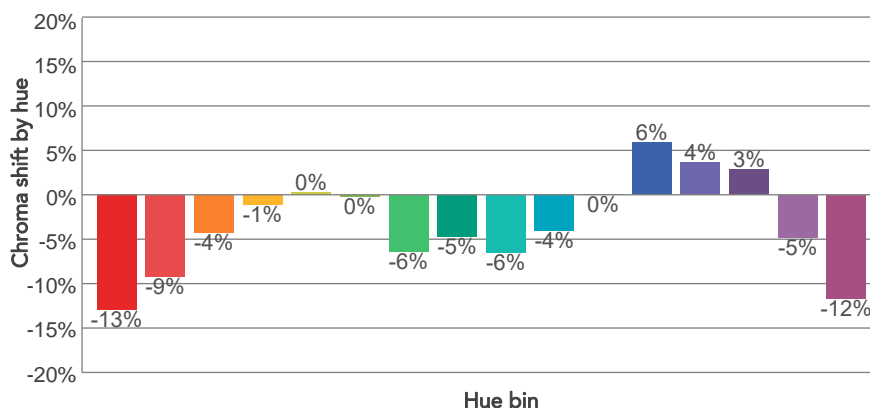
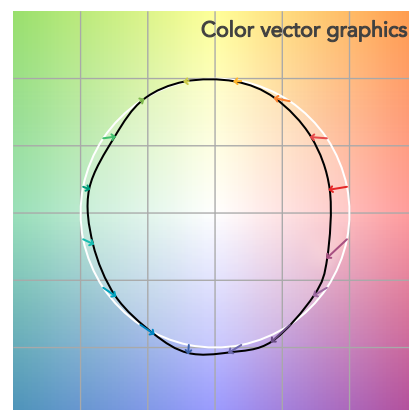
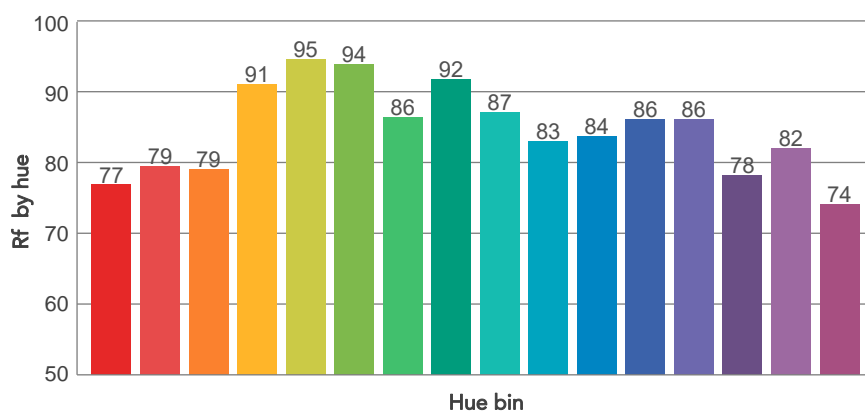
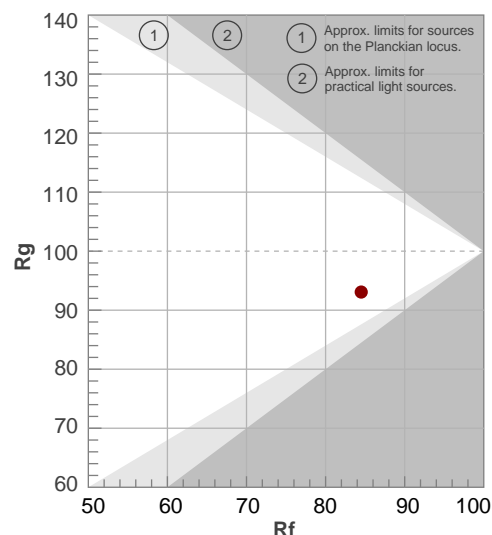
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2843 K	80,4	-5,9	84,5	93,1	81,1	64	0,452	0,414	0,0020

TM30 DETAILS

Rf 84,5
Fidelity index Rf

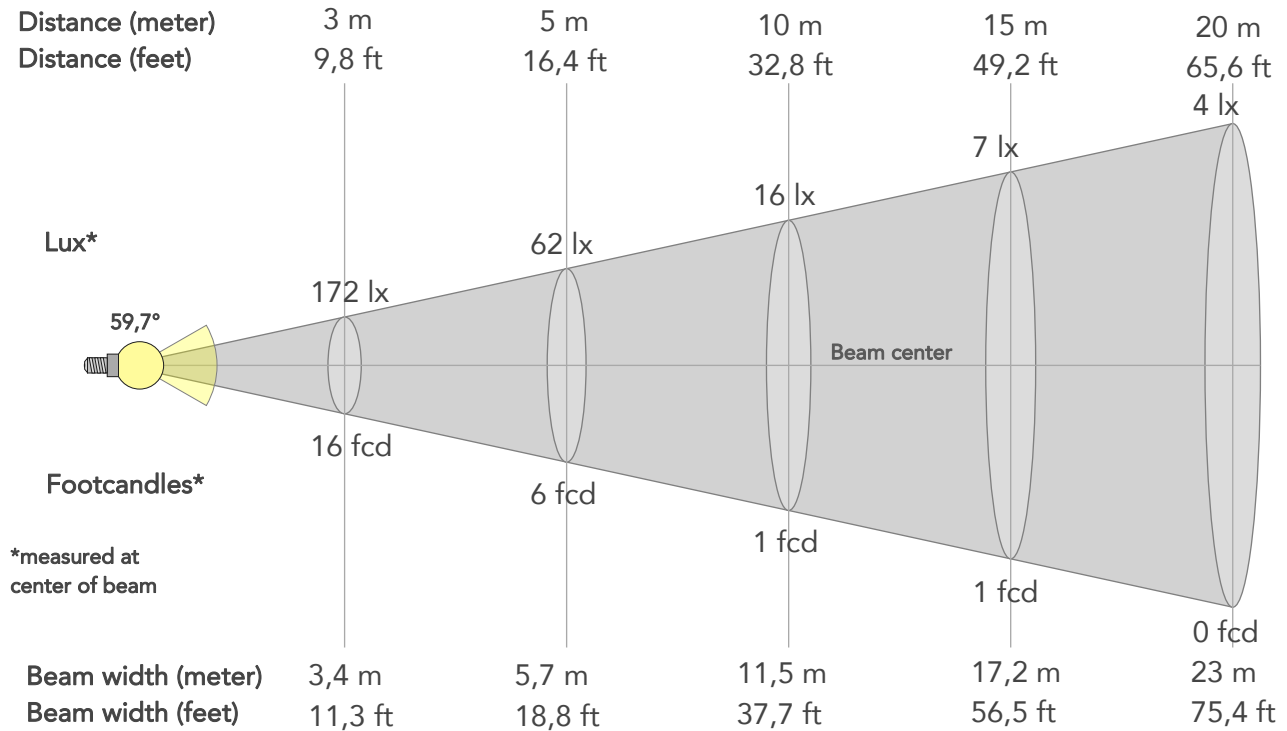
Rg 93,1
Gammut index

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%	-2%
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

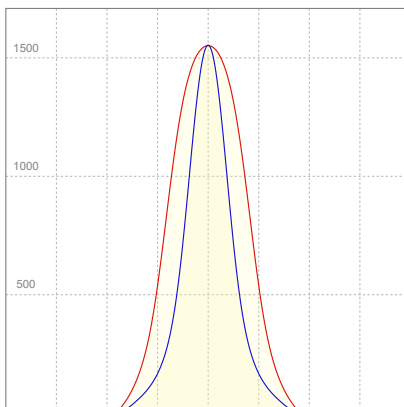
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
59,7°	108,6°	142°	93,8%	78,3%



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	1552lx	388lx	172lx	97lx	62lx	28lx	16lx	7lx	4lx	2lx	2lx	1lx	1lx
Footcand.	144fcd	36fcd	16fcd	9fcd	6fcd	3fcd	1fcd	1fcd	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	34,5m	45,9m	57,4m
Beam wid.	3,8ft	7,6ft	11,3ft	15ft	18,8ft	28,3ft	37,7ft	56,5ft	75,4ft	94,2ft	113ft	150,7ft	188,4ft

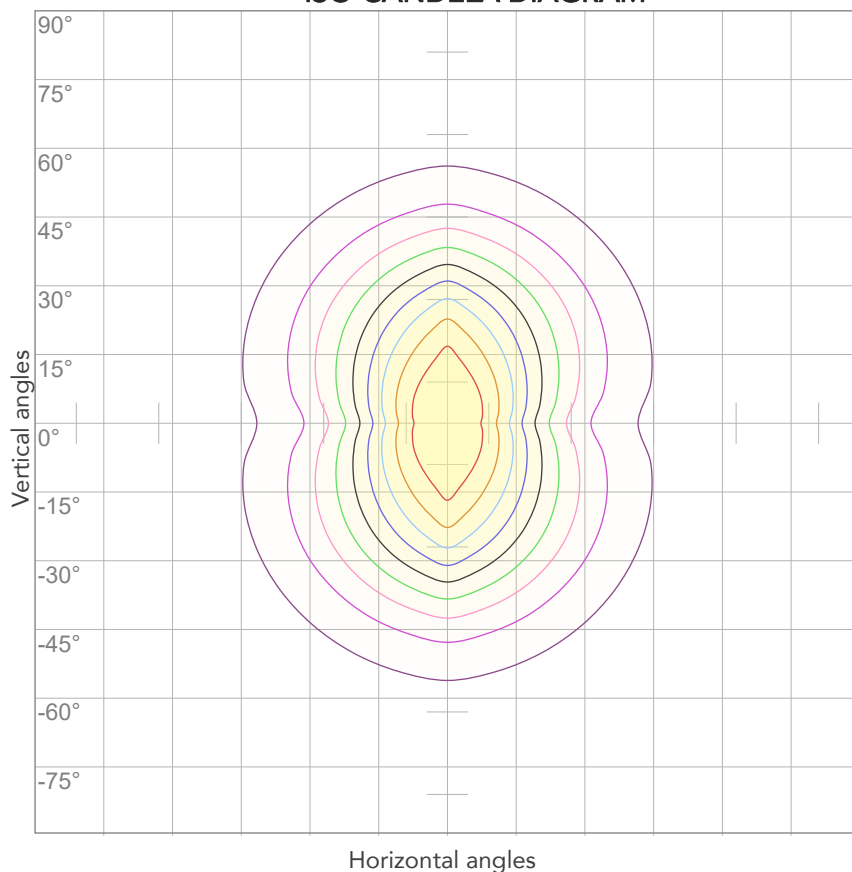
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,193A	41,3W	45lm/W

ISO CANDELA DIAGRAM



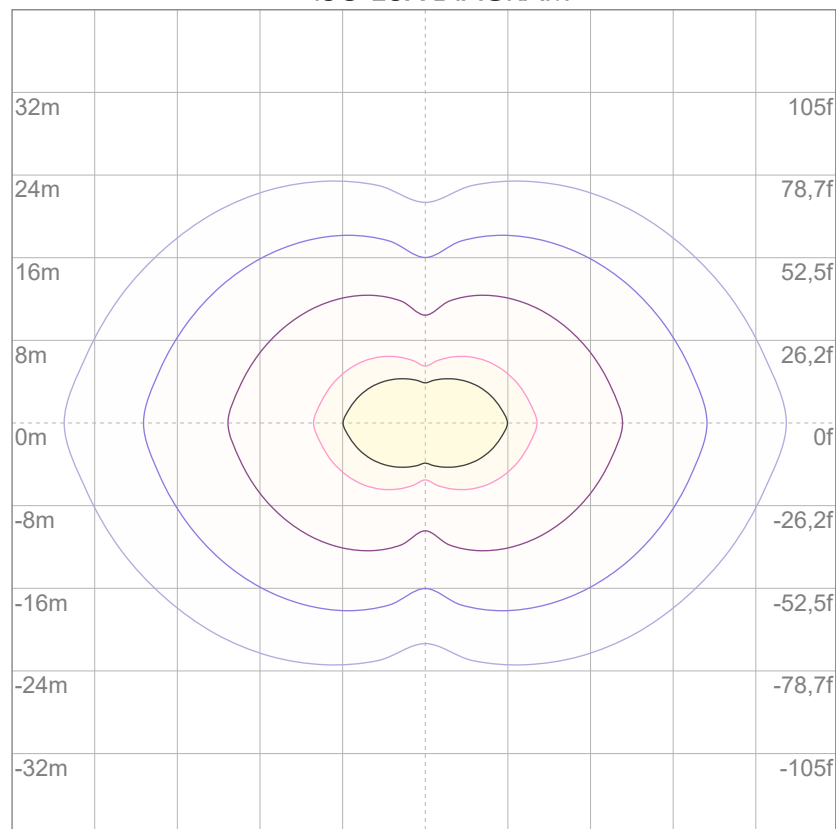
10%	155 cd
20%	310 cd
30%	466 cd
40%	621 cd
50%	776 cd
60%	931 cd
70%	1087 cd
80%	1242 cd

Conditions:

Number of c-planes: 4

Candela at center: 1552 cd

ISO LUX DIAGRAM



3%	0,466 lx
5%	0,776 lx
10%	1,55 lx
30%	4,66 lx
50%	7,76 lx

Conditions:

Number of c-planes: 4

Lux at center: 15,5 lx

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

Total lumen output:

2252 lm

Peak candela output:

9512 cd

Light quality:

CRI: 83,4

Color temperature:

6971 K



PRODUCT NAME:

ARCSHINES18VW

MEASURAMENT CONDITIONS:

Beam angle:

15°

Target:

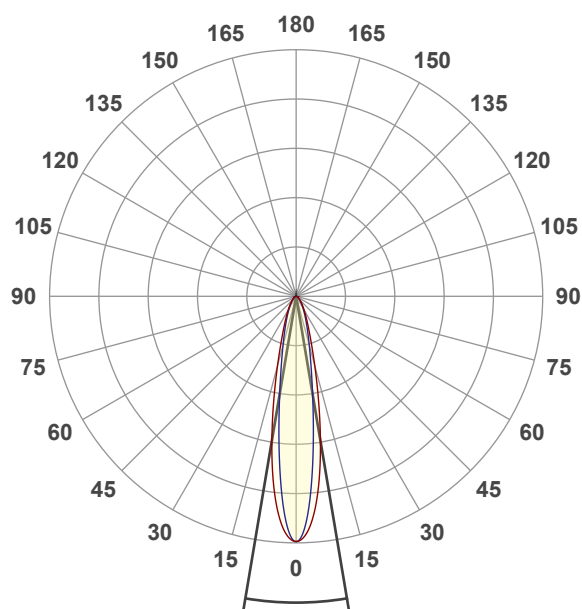
Cold White

Operator:

Paolo Carvone

Date and time:

08/09/2022 13:30:11

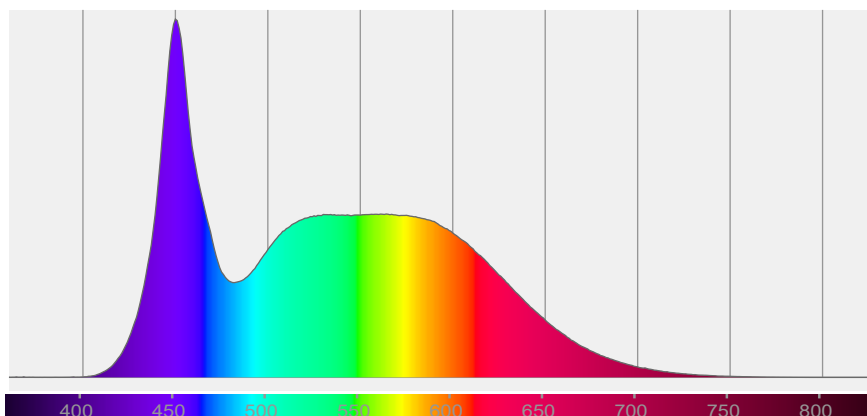


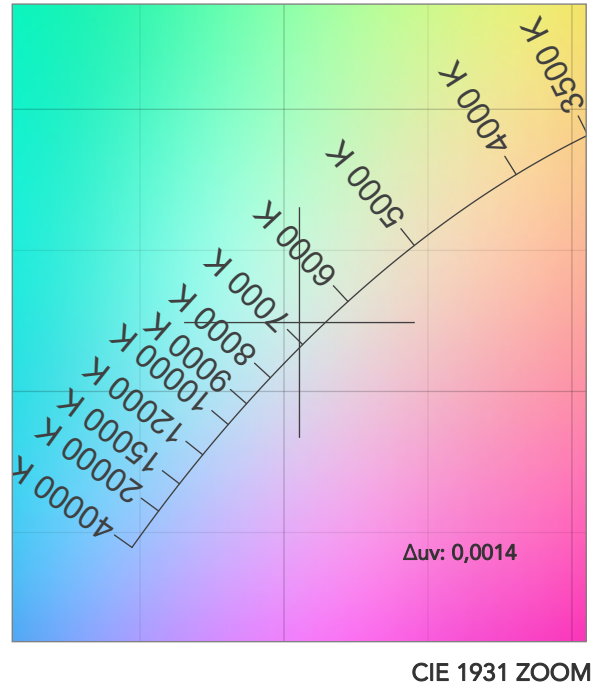
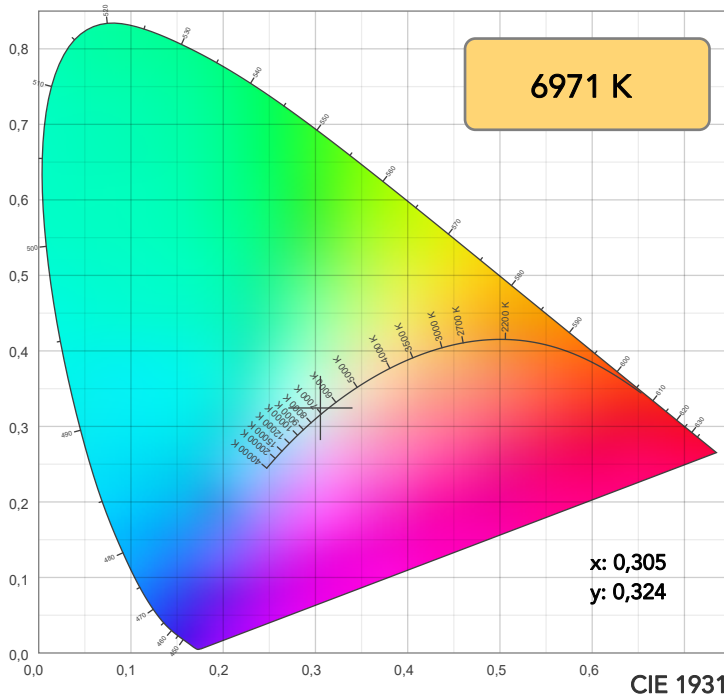
Beam angle 50%: 19,1°

Field angle 10%: 47,6°

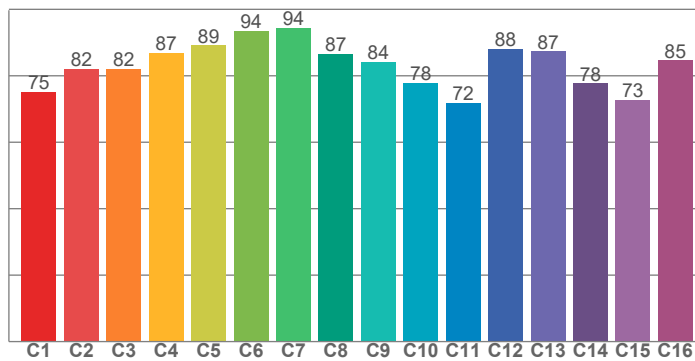
Cut off angle 2.5%: 84,7°

Spectra

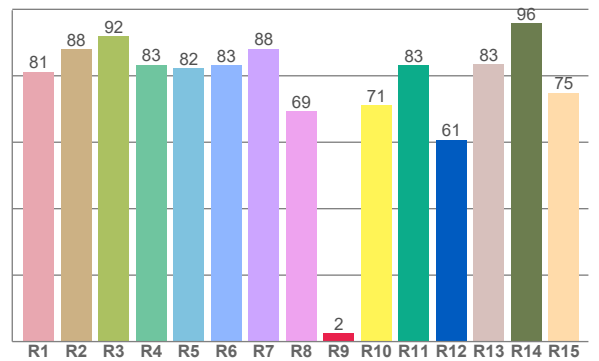




TM30: 83,8



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
81,2	87,9	91,9	83,4	82,3	83,1	88,1	69,3	2,5	71,0	83,1	60,7	83,4	95,9	74,9

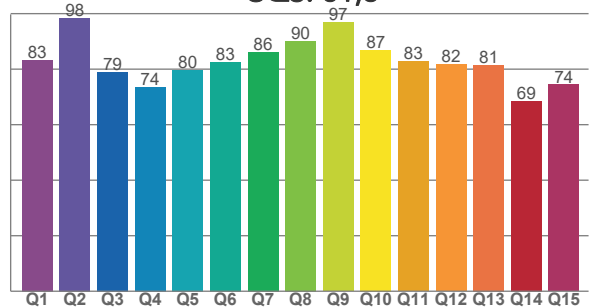
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
75,2	82,0	82,1	86,9	89,1	93,6	94,5	86,7	84,2	77,9	71,8	88,1	87,3	77,7	72,8	84,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
83,2	98,4	79,0	73,5	79,7	82,6	86,2	90,1	96,9	86,8	82,8	81,8	81,5	68,6	74,5

CQS: 81,3



COLOR PARAMETERS

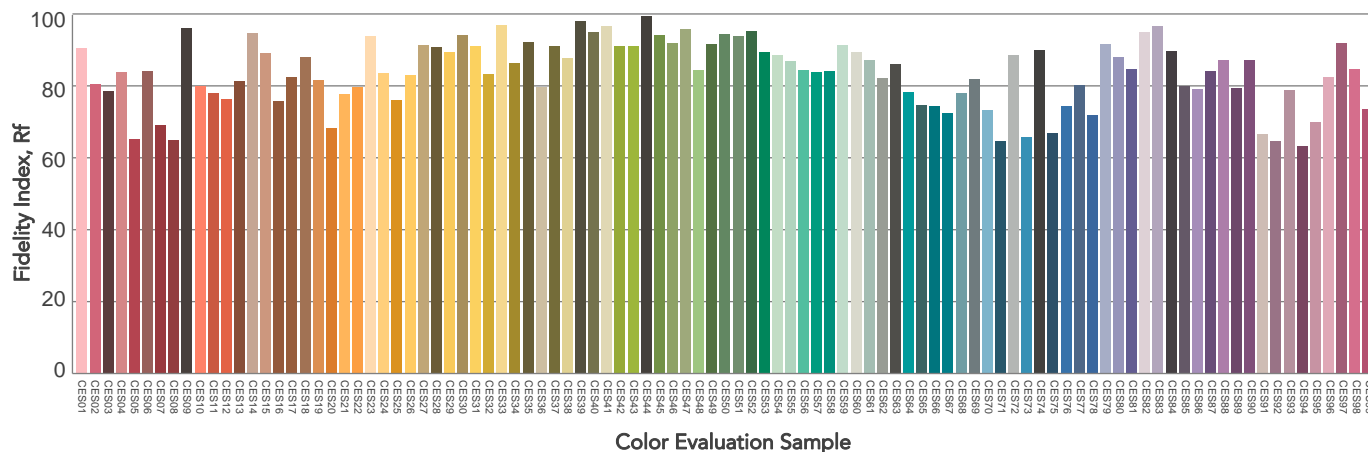
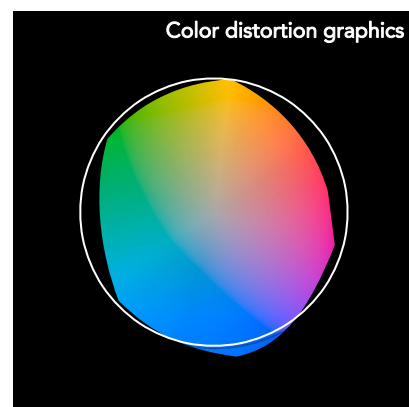
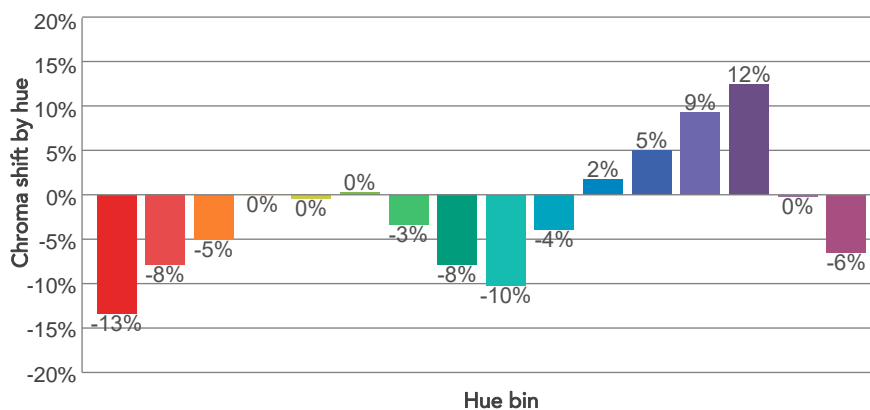
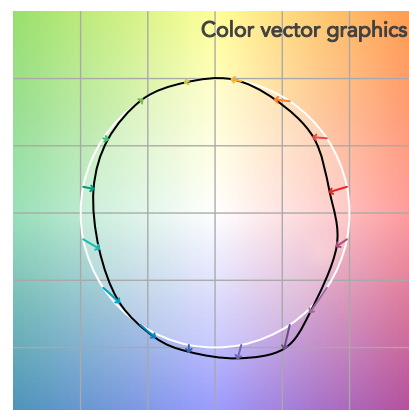
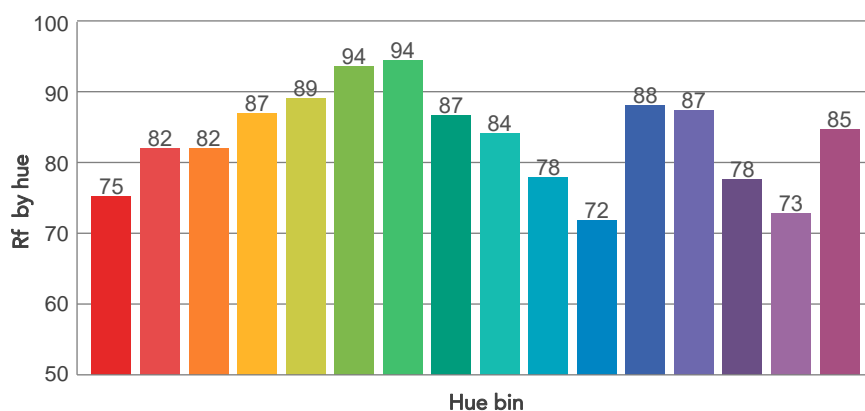
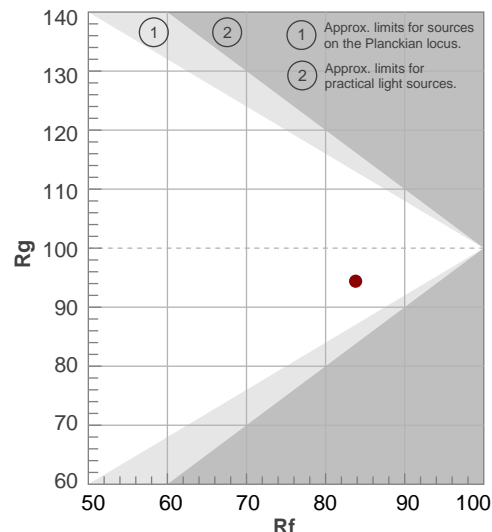
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6971 K	83,4	2,5	83,8	94,4	81,3	70	0,305	0,324	0,0014

TM30 DETAILS

Rf 83,8
Fidelity index Rf

Rg 94,4
Gammut index

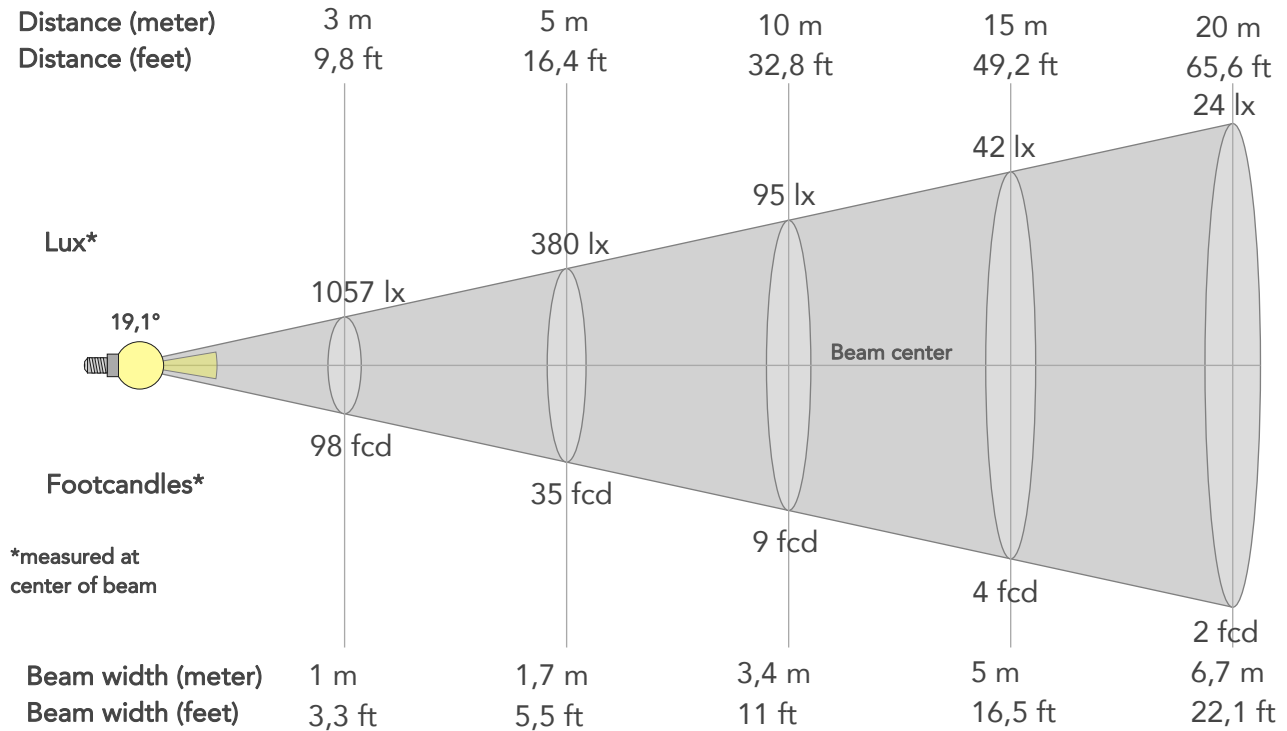
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	75	-13%	-1%
2	82	-8%	6%
3	82	-5%	10%
4	87	0%	7%
5	89	0%	3%
6	94	0%	-2%
7	94	-3%	-1%
8	87	-8%	0%
9	84	-10%	9%
10	78	-4%	16%
11	72	2%	14%
12	88	5%	1%
13	87	9%	-5%
14	78	12%	-13%
15	73	0%	-22%
16	85	-6%	-7%



BEAM DETAILS



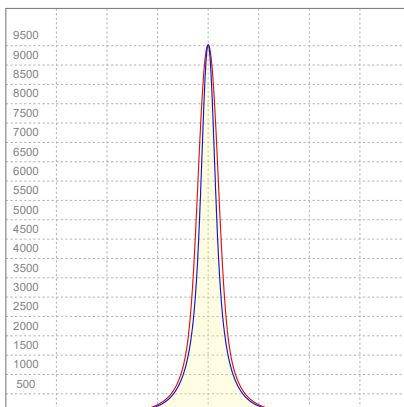
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
19,1°	47,6°	84,7°	98,2%	91,0%



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	9511lx	2378lx	1057lx	594lx	380lx	169lx	95lx	42lx	24lx	15lx	11lx	6lx	4lx
Footcand.	884fcd	221fcd	98fcd	55fcd	35fcd	16fcd	9fcd	4fcd	2fcd	1fcd	1fcd	1fcd	0fcd
Beam wid.	0,3m	0,7m	1m	1,3m	1,7m	2,5m	3,4m	5m	6,7m	8,4m	10,1m	13,4m	16,8m
Beam wid.	1,1ft	2,2ft	3,3ft	4,4ft	5,5ft	8,3ft	11ft	16,5ft	22,1ft	27,6ft	33,1ft	44,1ft	55,1ft

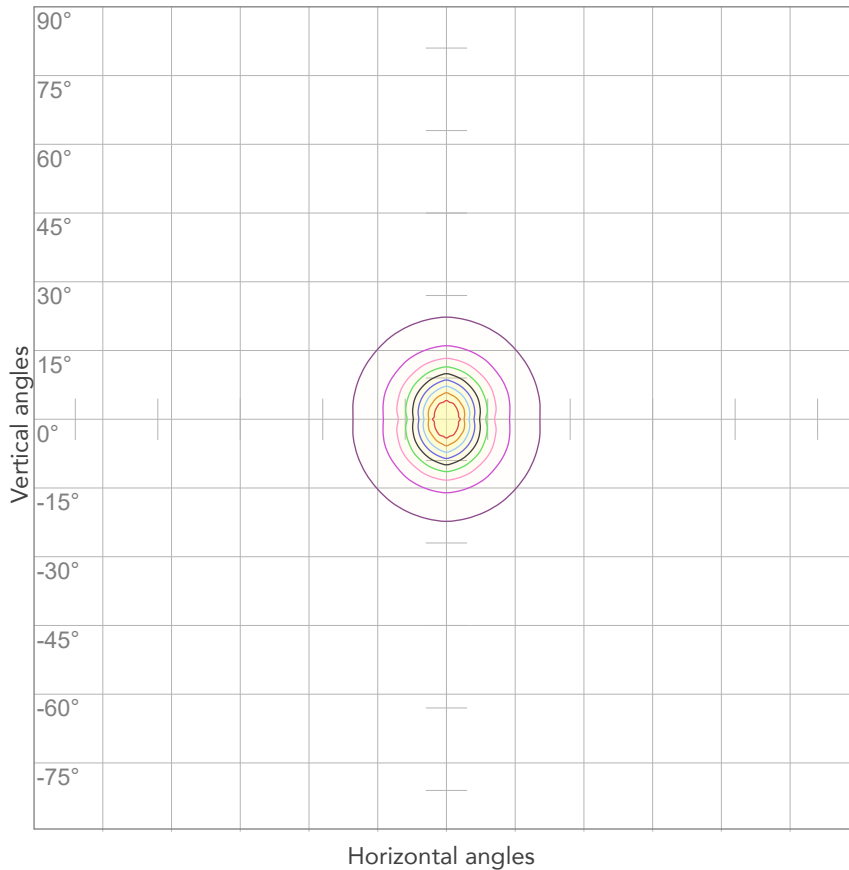
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,197A	42,3W	53lm/W

ISO CANDELA DIAGRAM



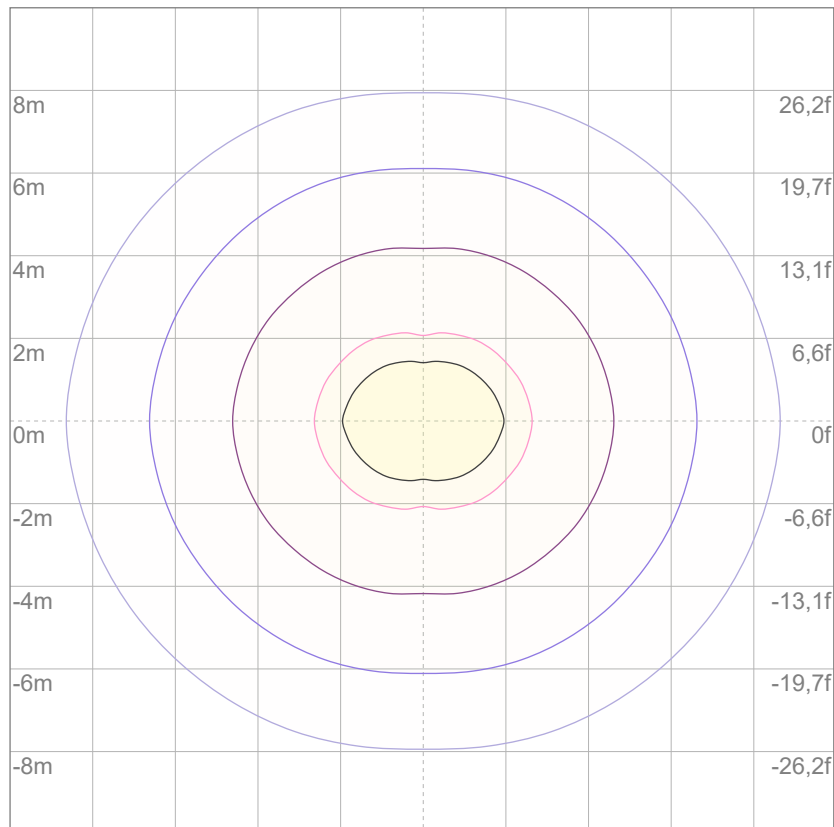
10%	951 cd
20%	1902 cd
30%	2853 cd
40%	3804 cd
50%	4755 cd
60%	5706 cd
70%	6657 cd
80%	7609 cd

Conditions:

Number of c-planes: 4

Candela at center: 9511 cd

ISO LUX DIAGRAM



3%	2,85 lx
5%	4,76 lx
10%	9,51 lx
30%	28,5 lx
50%	47,6 lx

Conditions:

Number of c-planes: 4

Lux at center: 95,1 lx

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

Total lumen output:

2064 lm

Peak candela output:

3857 cd

Light quality:

CRI: 83,5

Color temperature:

6962 K



PRODUCT NAME:

ARCSHINES18VW

MEASURAMENT CONDITIONS:

Beam angle:

15°+ Filter 20°

Target:

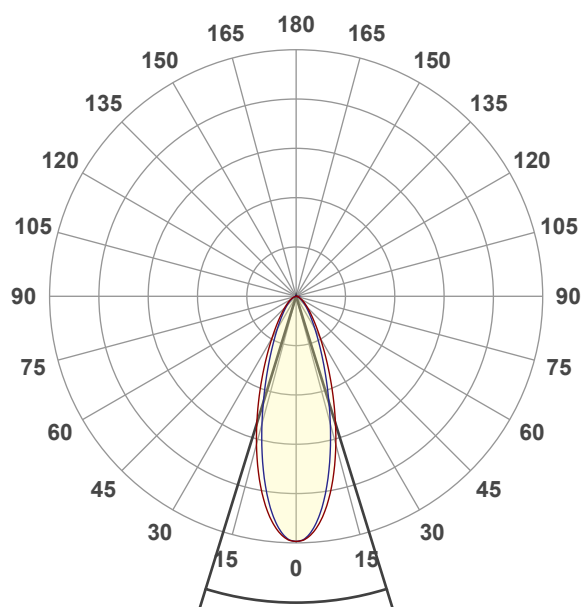
Cold White

Operator:

Paolo Carvone

Date and time:

08/09/2022 13:33:19

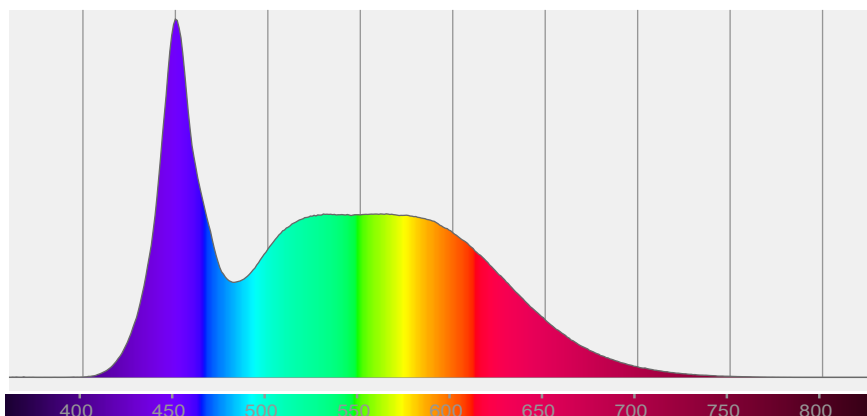


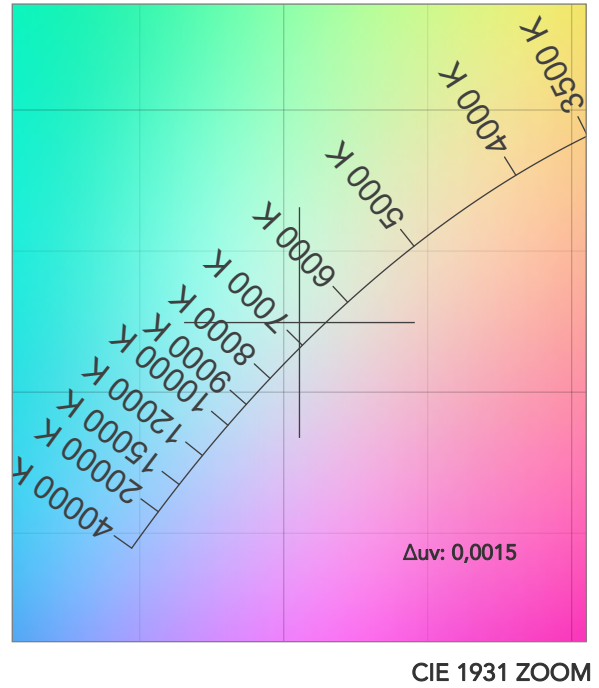
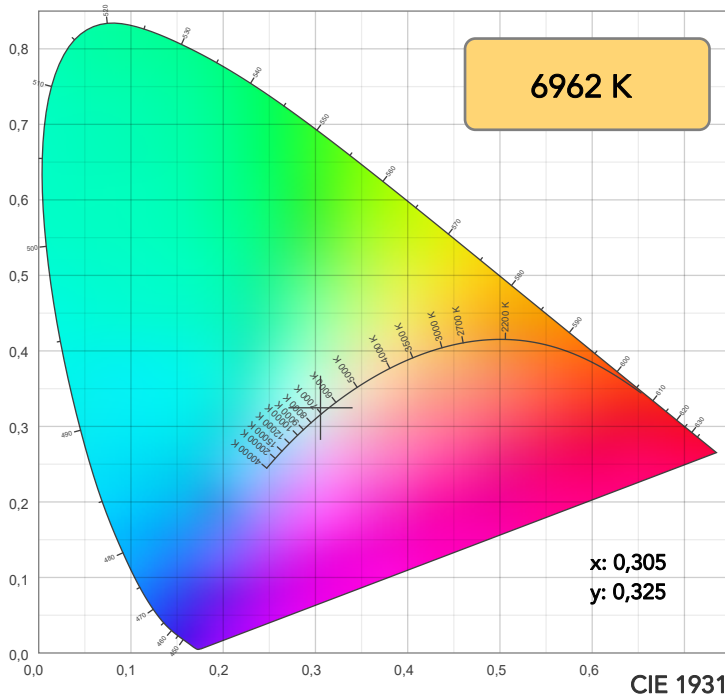
Beam angle 50%: 34,4°

Field angle 10%: 74,5°

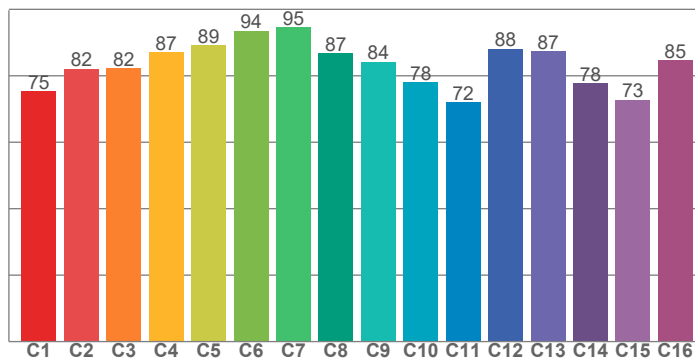
Cut off angle 2.5%: 116,1°

Spectra

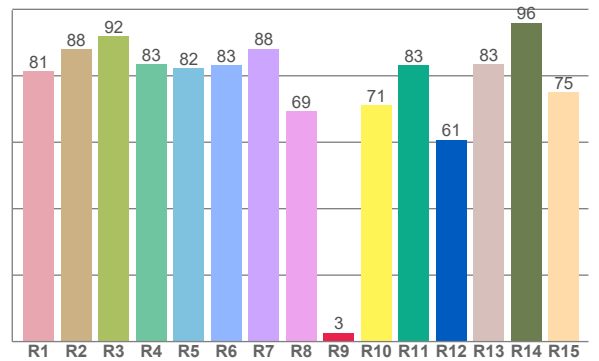




TM30: 83,9



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
81,3	88,0	92,0	83,4	82,3	83,2	88,2	69,3	2,7	71,2	83,1	60,8	83,5	96,0	75,0

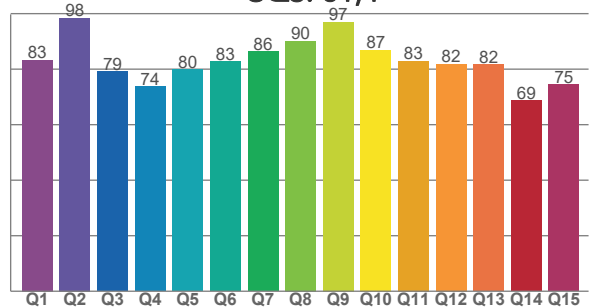
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
75,3	82,1	82,2	87,1	89,2	93,6	94,5	86,7	84,2	78,0	72,0	88,2	87,4	77,7	72,8	84,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
83,2	98,5	79,1	73,7	79,8	82,7	86,3	90,2	96,9	87,0	83,0	81,9	81,6	68,7	74,5

CQS: 81,4



COLOR PARAMETERS

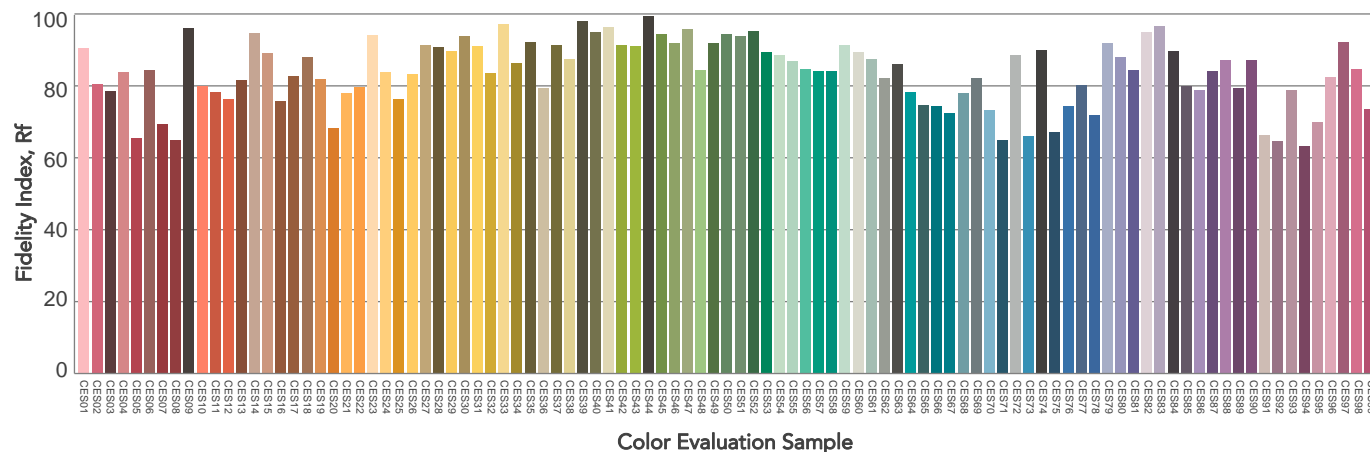
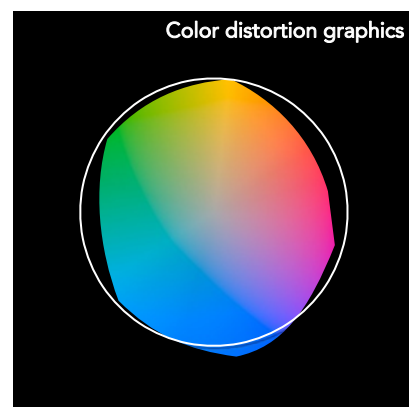
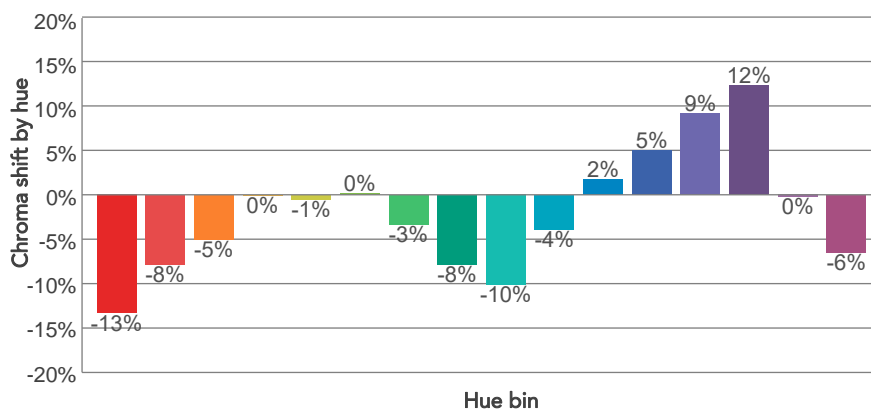
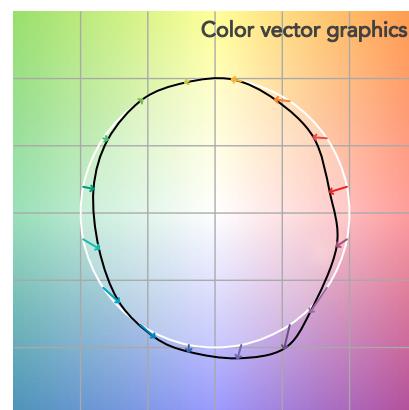
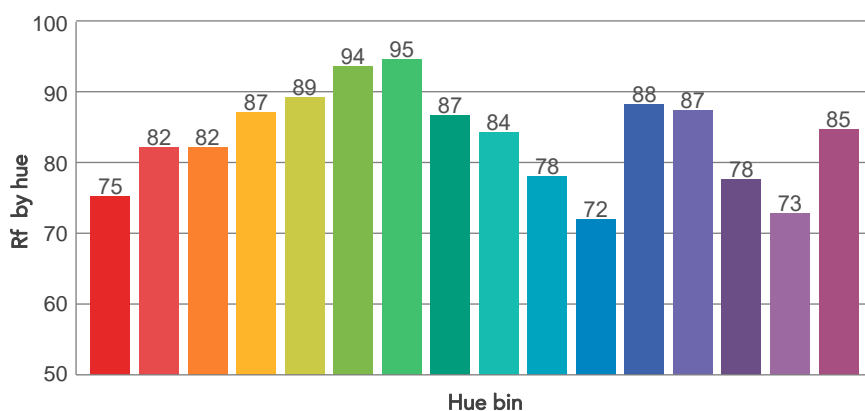
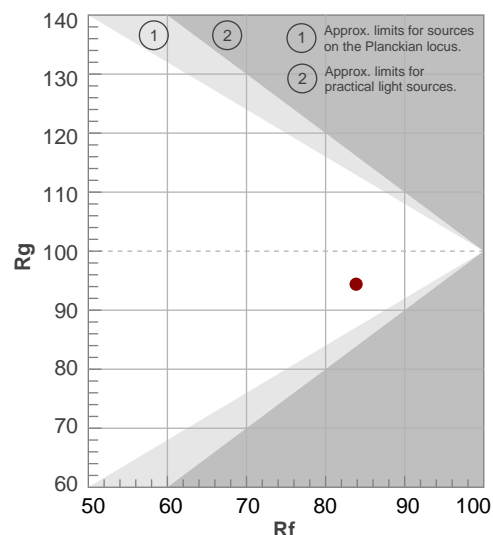
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6962 K	83,5	2,7	83,9	94,4	81,4	70	0,305	0,325	0,0015

TM30 DETAILS

Rf 83,9
Fidelity index Rf

Rg 94,4
Gammut index

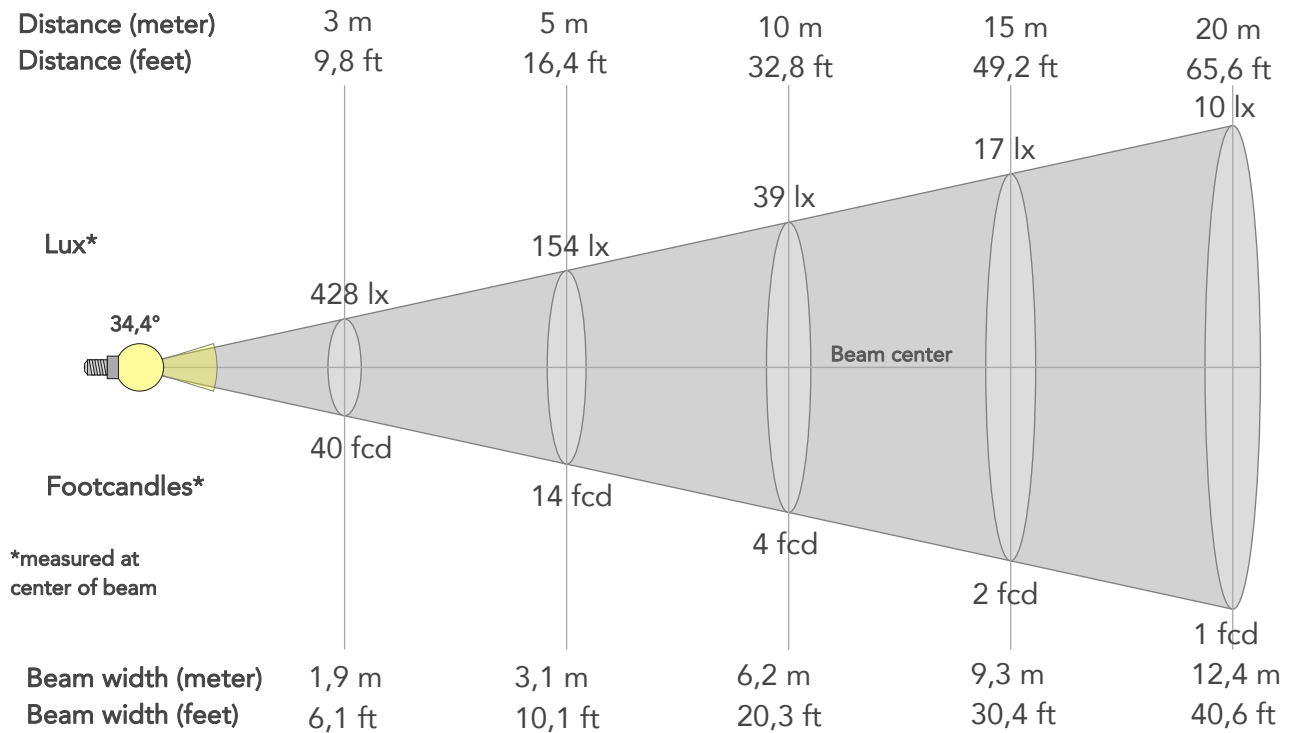
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	75	-13%	-1%
2	82	-8%	6%
3	82	-5%	10%
4	87	0%	7%
5	89	-1%	3%
6	94	0%	-2%
7	95	-3%	-1%
8	87	-8%	0%
9	84	-10%	9%
10	78	-4%	15%
11	72	2%	14%
12	88	5%	1%
13	87	9%	-5%
14	78	12%	-13%
15	73	0%	-22%
16	85	-6%	-7%



BEAM DETAILS



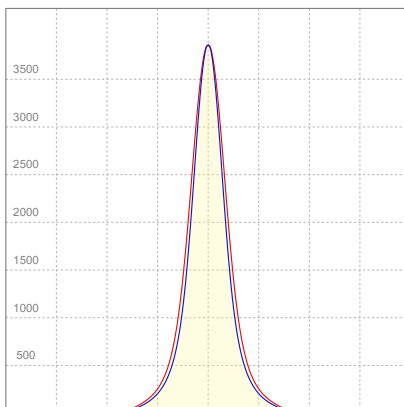
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
34,4°	74,5°	116,1°	96,7%	87,7%



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	3856lx	964lx	428lx	241lx	154lx	69lx	39lx	17lx	10lx	6lx	4lx	2lx	2lx
Footcand.	358fcd	90fcd	40fcd	22fcd	14fcd	6fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,2m	1,9m	2,5m	3,1m	4,6m	6,2m	9,3m	12,4m	15,5m	18,6m	24,7m	30,9m
Beam wid.	2ft	4,1ft	6,1ft	8,1ft	10,1ft	15,2ft	20,3ft	30,4ft	40,6ft	50,7ft	60,8ft	81,1ft	101,4ft

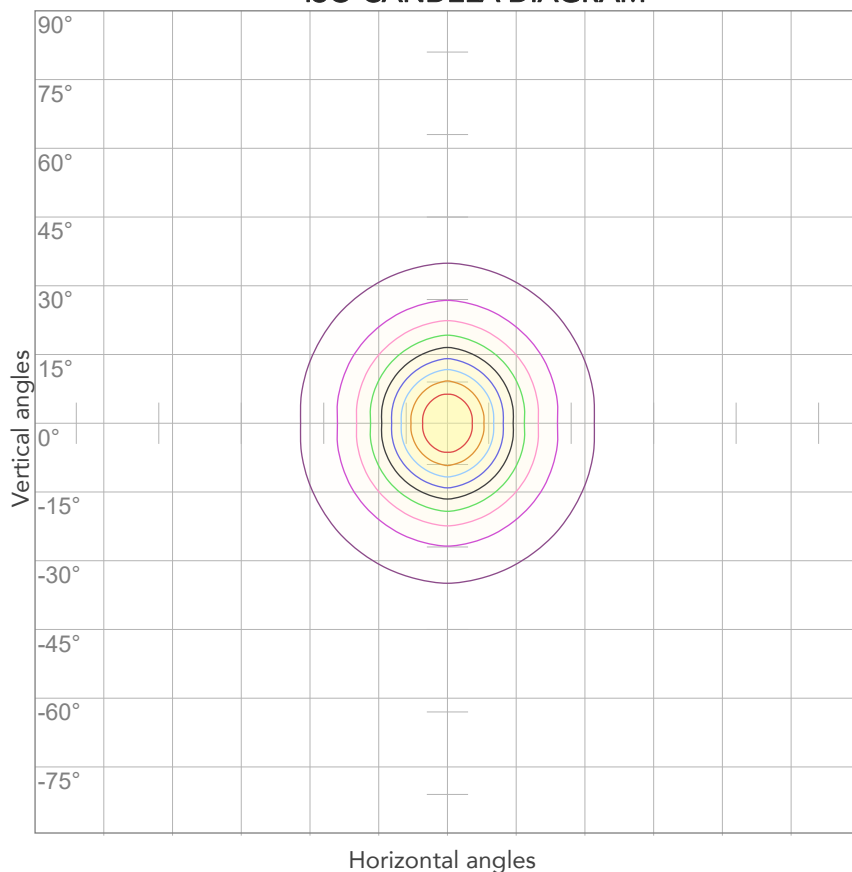
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,198A	42,2W	49lm/W

ISO CANDELA DIAGRAM



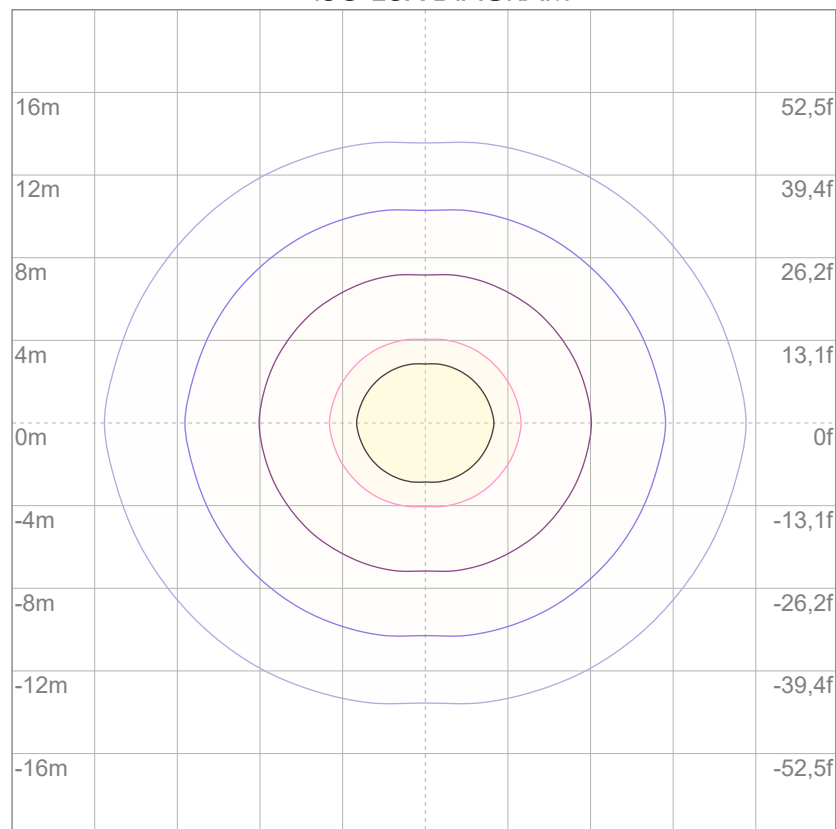
10%	386 cd
20%	771 cd
30%	1157 cd
40%	1543 cd
50%	1928 cd
60%	2314 cd
70%	2699 cd
80%	3085 cd

Conditions:

Number of c-planes: 4

Candela at center: 3856 cd

ISO LUX DIAGRAM



3%	1,16 lx
5%	1,93 lx
10%	3,86 lx
30%	11,6 lx
50%	19,3 lx

Conditions:

Number of c-planes: 4

Lux at center: 38,6 lx

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

Total lumen output:

2013 lm

Peak candela output:

1421 cd

Light quality:

CRI: 83,6

Color temperature:

6965 K



PRODUCT NAME:

ARCSHINES18VW

MEASURAMENT CONDITIONS:

Beam angle:

15°+ Filter 60°

Target:

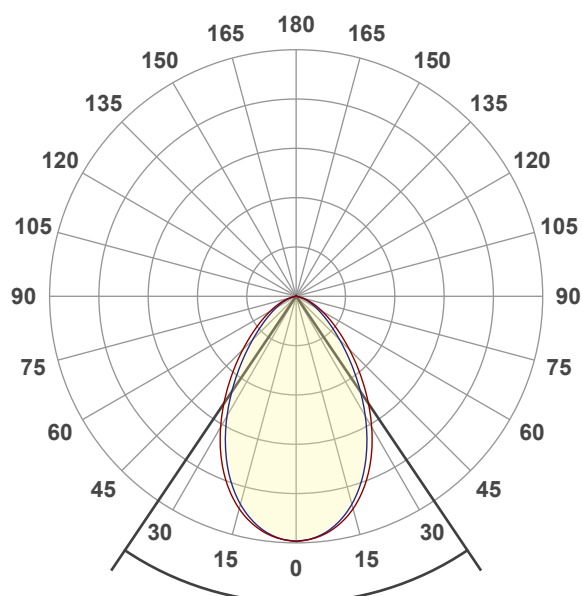
Cold White

Operator:

Paolo Carvone

Date and time:

08/09/2022 13:38:54

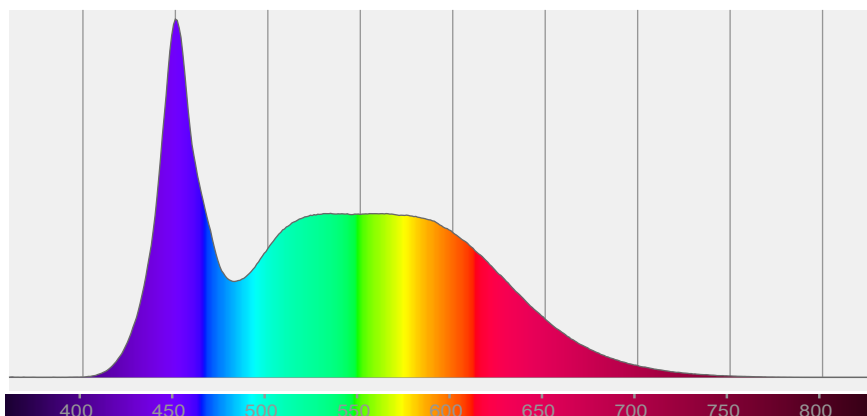


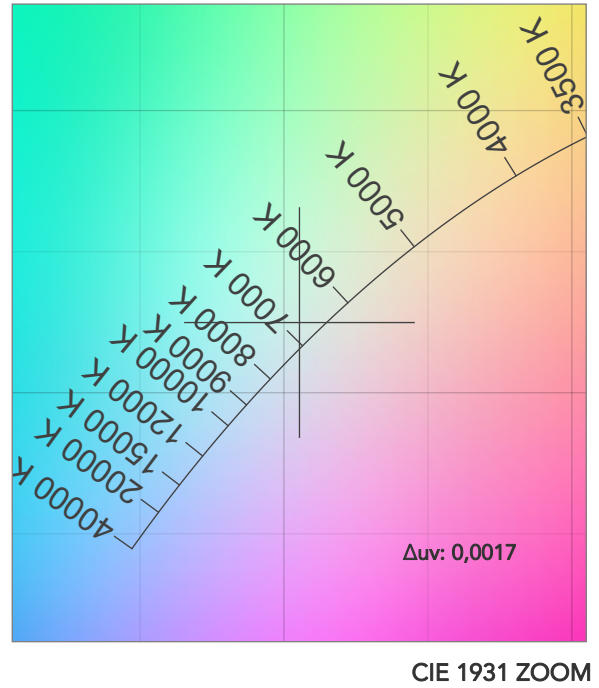
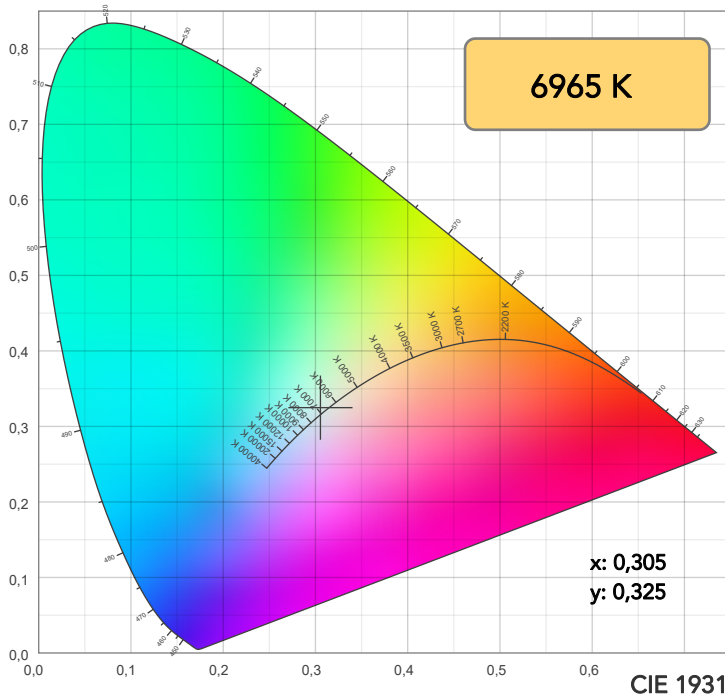
Beam angle 50%: 68°

Field angle 10%: 122,3°

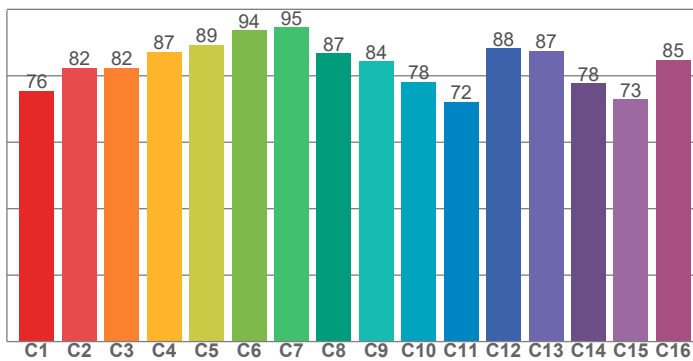
Cut off angle 2.5%: 149,3°

Spectra

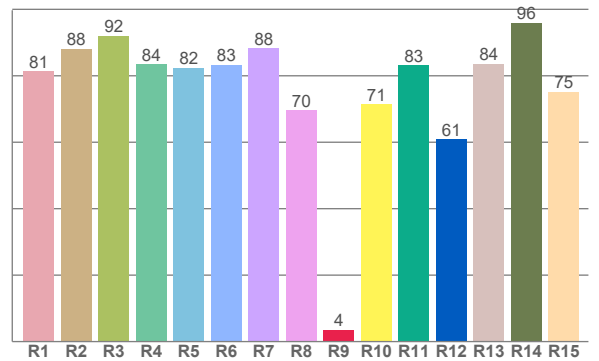




TM30: 84,0



CRI: 83,6 (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
81,4	88,1	92,0	83,5	82,4	83,3	88,3	69,6	3,6	71,4	83,2	60,9	83,6	96,0	75,2

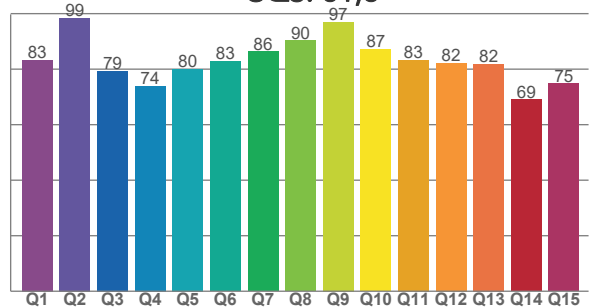
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
75,5	82,3	82,4	87,3	89,3	93,6	94,5	86,7	84,3	78,2	72,2	88,3	87,4	77,7	73,0	84,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
83,3	98,5	79,3	73,9	80,0	82,8	86,4	90,2	97,0	87,2	83,3	82,2	81,9	69,0	74,8

CQS: 81,6



COLOR PARAMETERS

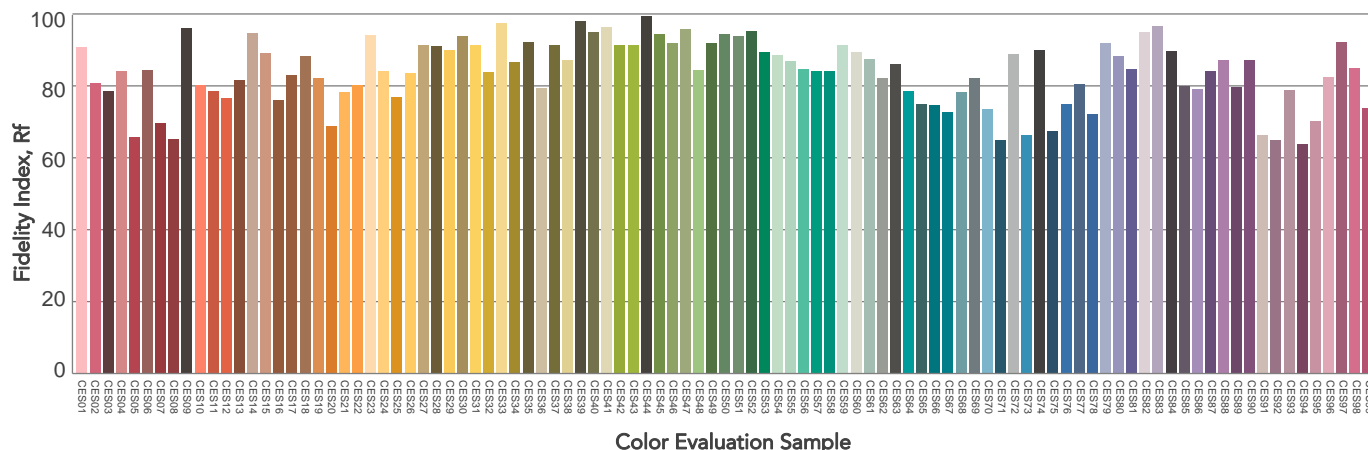
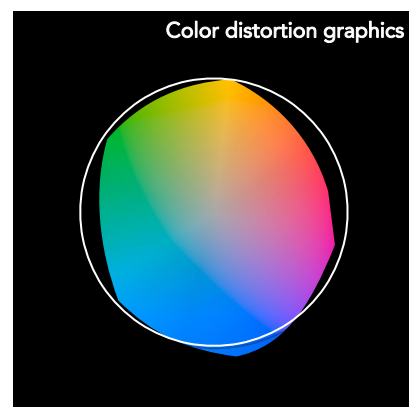
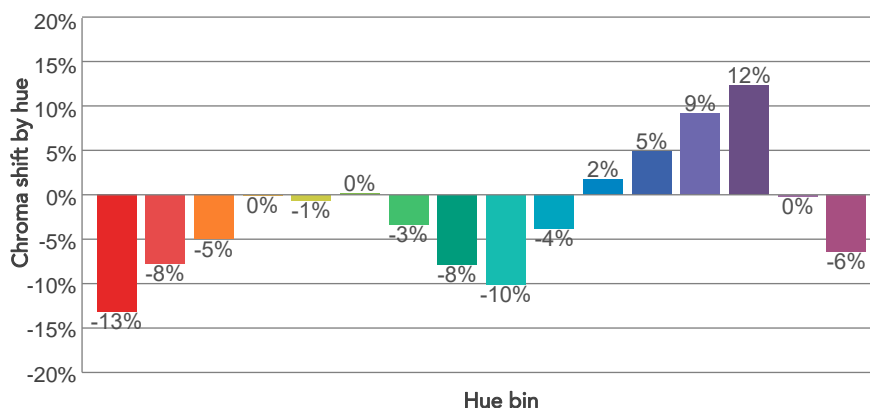
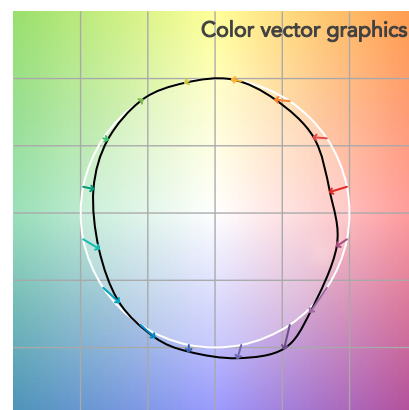
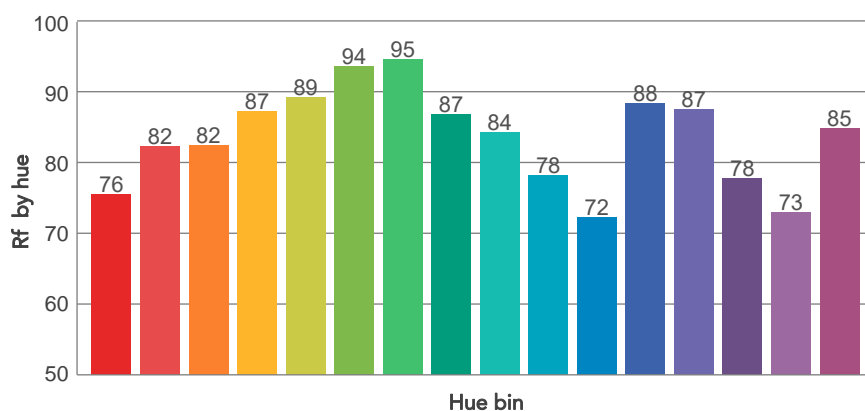
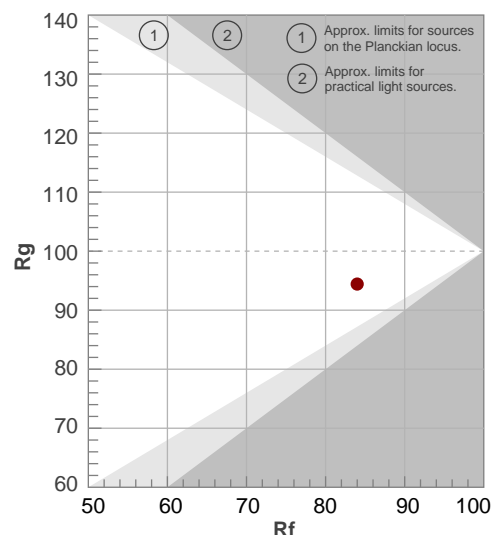
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6965 K	83,6	3,6	84,0	94,4	81,6	70	0,305	0,325	0,0017

TM30 DETAILS

Rf 84,0
Fidelity index Rf

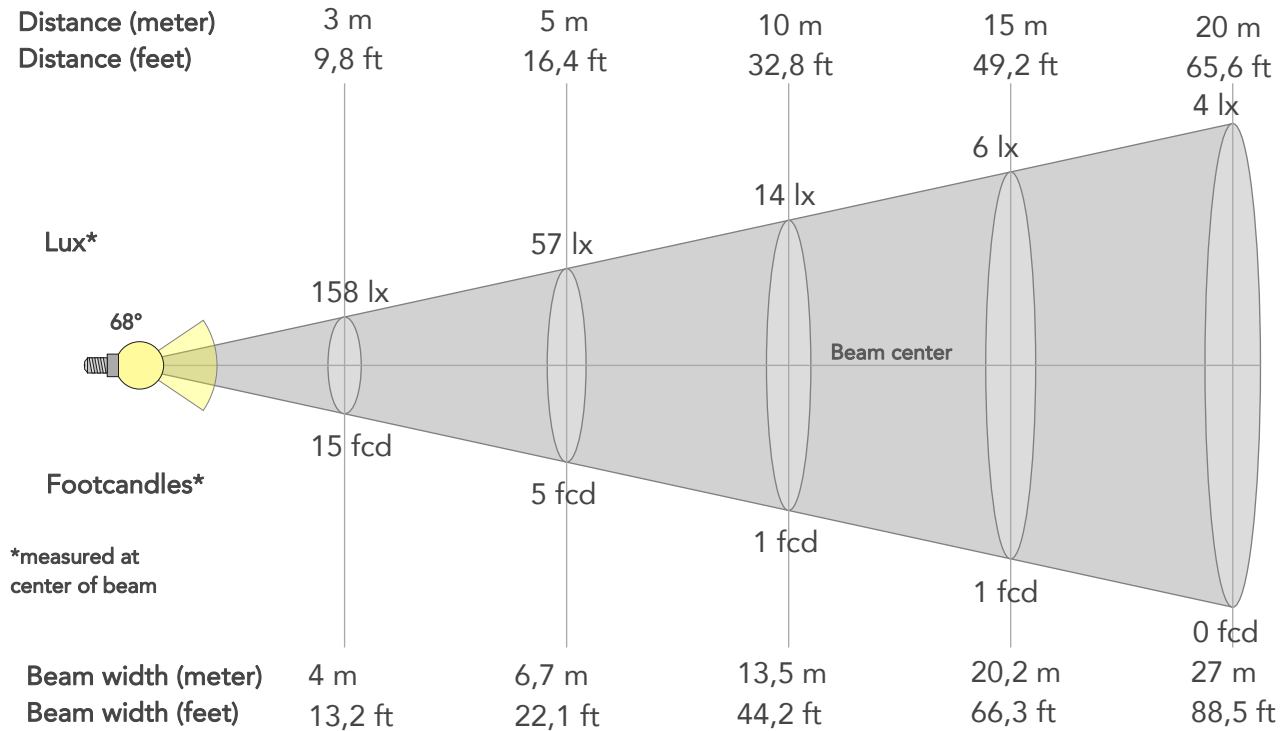
Rg 94,4
Gammut index

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	-1%	3%
6	94	0%	-2%
7	95	-3%	-1%
8	87	-8%	0%
9	84	-10%	9%
10	78	-4%	15%
11	72	2%	14%
12	88	5%	1%
13	87	9%	-5%
14	78	12%	-13%
15	73	0%	-22%
16	85	-6%	-6%



BEAM DETAILS

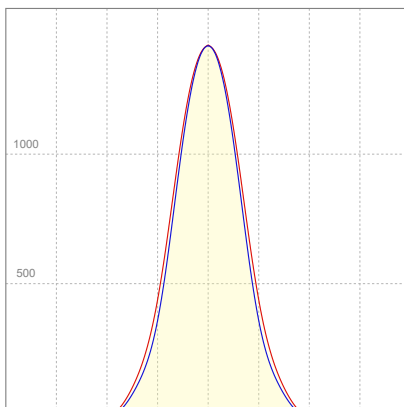
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
68°	122,3°	149,3°	92,7%	76,1%



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	1419lx	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.	1,3m	2,7m	4m	5,4m	6,7m	10,1m	13,5m	20,2m	27m	33,7m	40,5m	53,9m	67,4m
Beam wid.	4,4ft	8,9ft	13,2ft	17,7ft	22,1ft	33,2ft	44,2ft	66,3ft	88,5ft	110,6ft	132,7ft	176,9ft	221,2ft

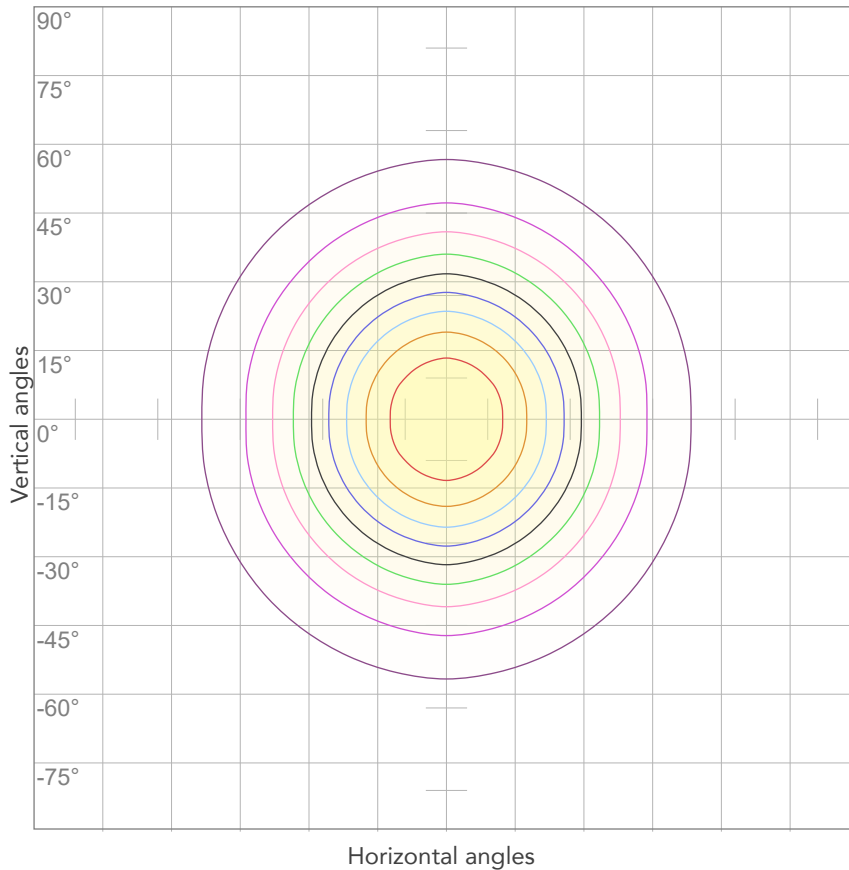
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,197A	42,2W	48lm/W

ISO CANDELA DIAGRAM



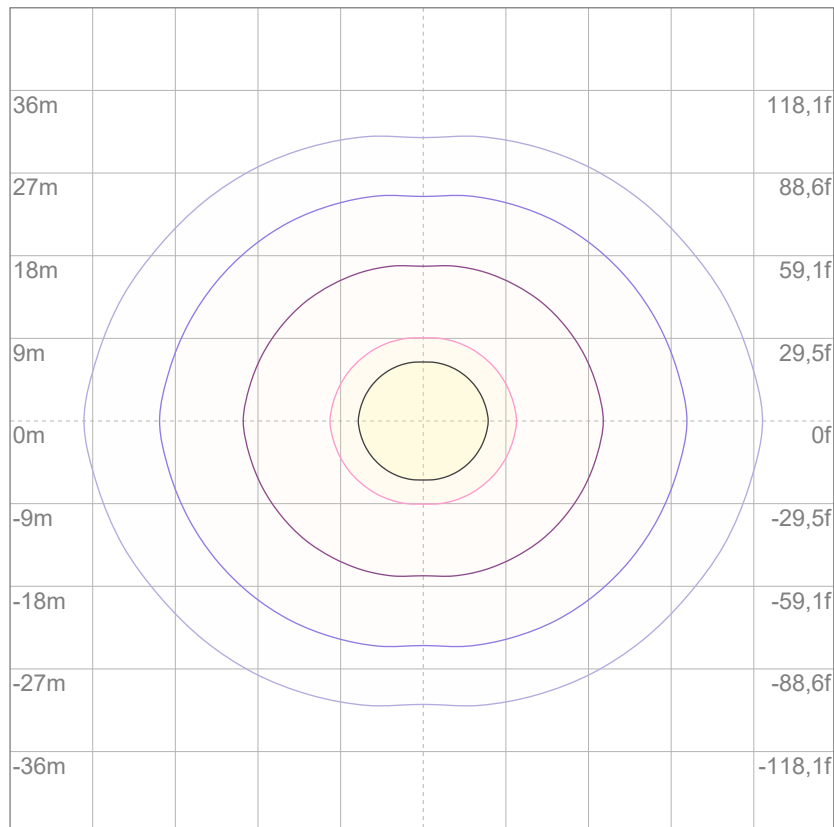
10%	142 cd
20%	284 cd
30%	426 cd
40%	568 cd
50%	710 cd
60%	852 cd
70%	994 cd
80%	1135 cd

Conditions:

Number of c-planes: 4

Candela at center: 1419 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:

2555 lm

Peak candela output:

2733 cd

Light quality:

CRI: 83,6

Color temperature:

7011 K



PRODUCT NAME:

ARCSHINES18VW

MEASURAMENT CONDITIONS:

Beam angle:

15°+ Filter 10°x60°

Target:

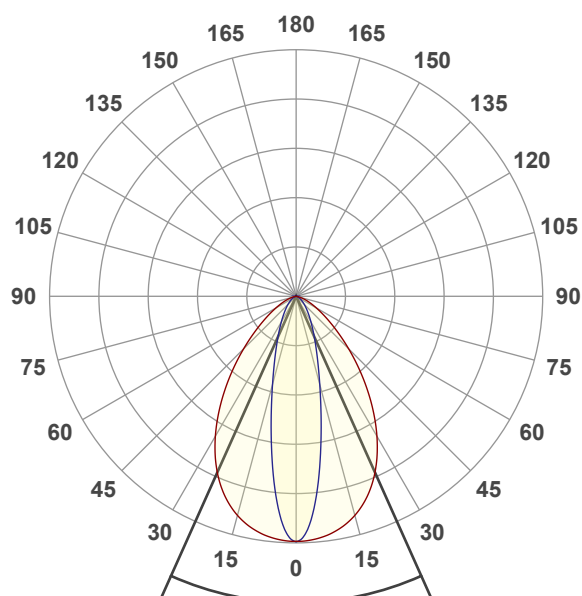
Cold White

Operator:

Paolo Carvone

Date and time:

08/09/2022 13:44:32

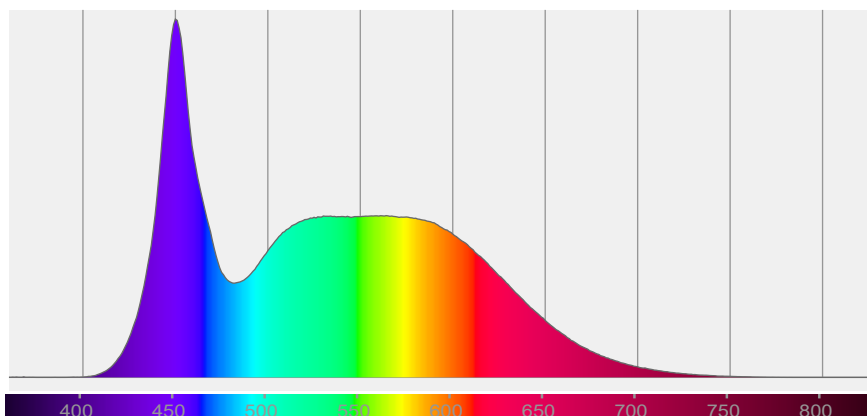


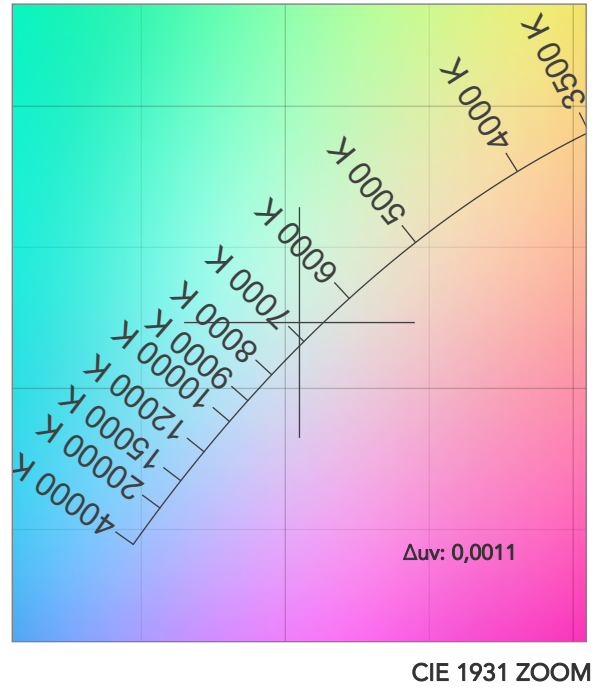
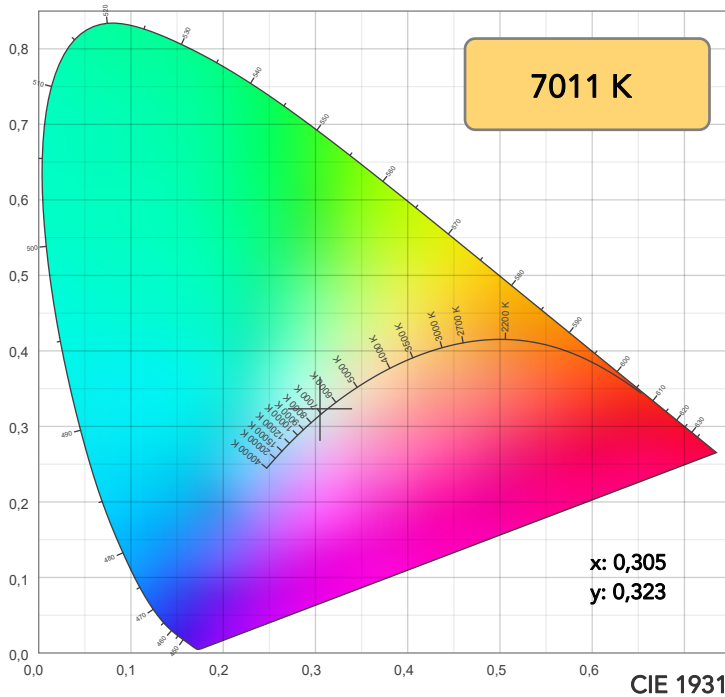
Beam angle 50%: 48,2°

Field angle 10%: 92,4°

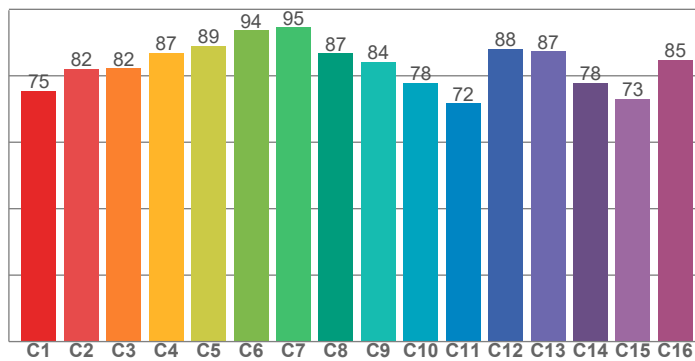
Cut off angle 2.5%: 127,6°

Spectra

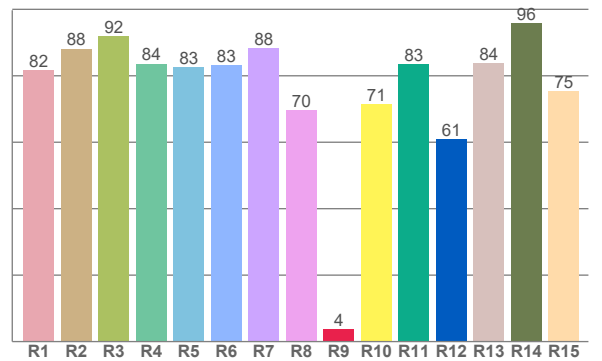




TM30: 83,9



CRI: 83,6 (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
81,6	88,1	91,9	83,6	82,5	83,2	88,2	69,7	3,7	71,4	83,4	60,8	83,7	95,9	75,4

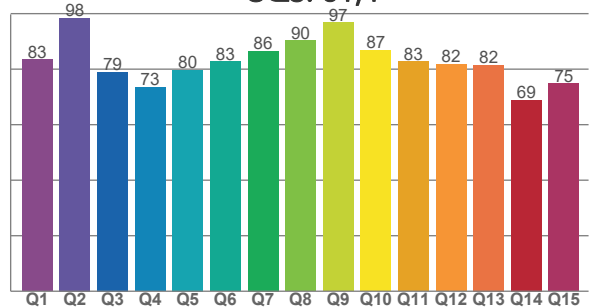
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
75,4	82,2	82,2	86,9	89,1	93,6	94,5	86,8	84,2	77,9	71,7	88,1	87,4	77,8	73,0	84,9

CQS Q values

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

CQS: 81,4



COLOR PARAMETERS

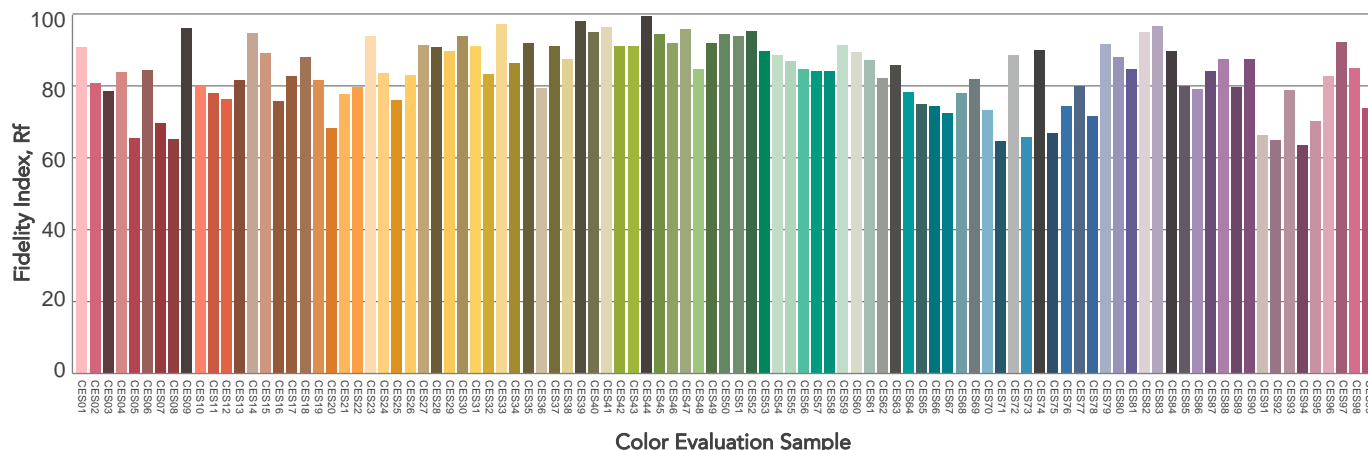
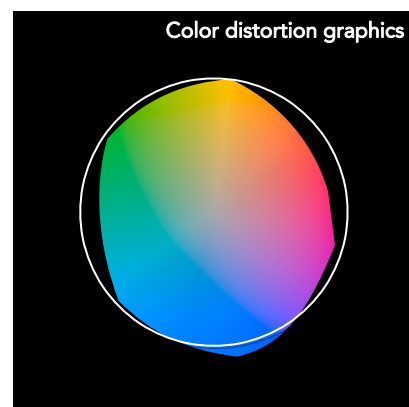
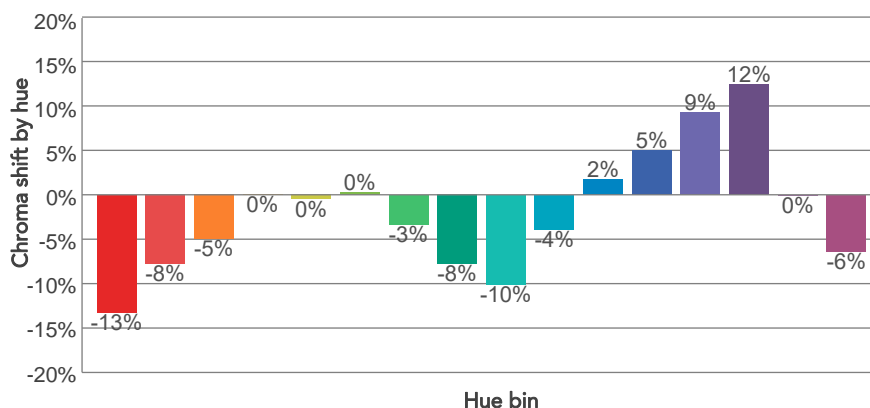
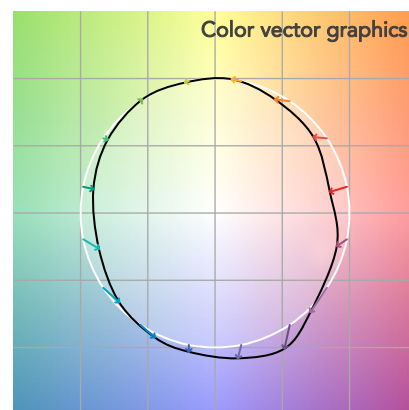
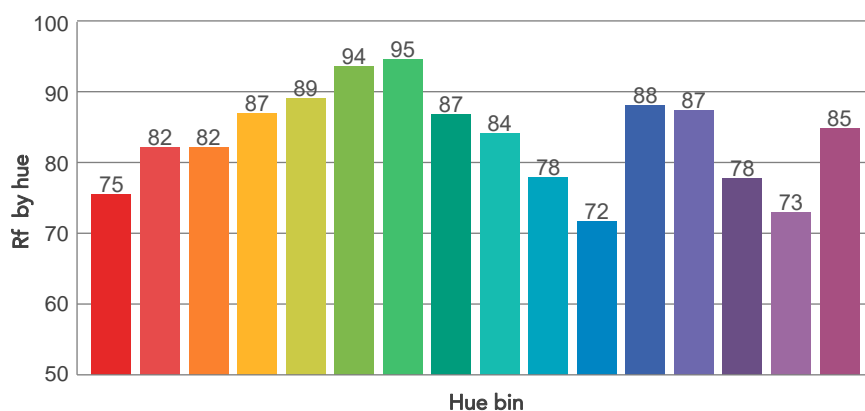
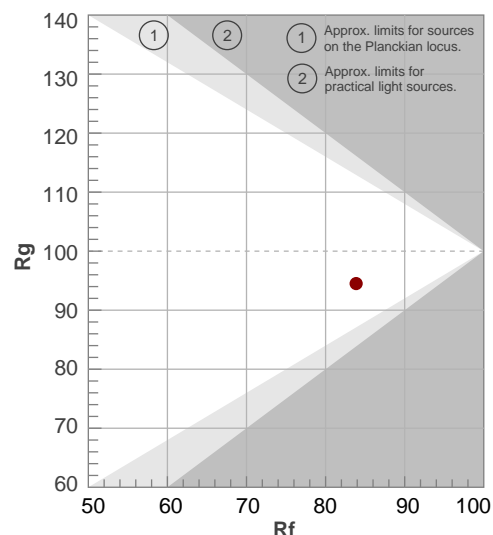
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
7011 K	83,6	3,7	83,9	94,5	81,4	70	0,305	0,323	0,0011

TM30 DETAILS

Rf 83,9
Fidelity index Rf

Rg 94,5
Gammut index

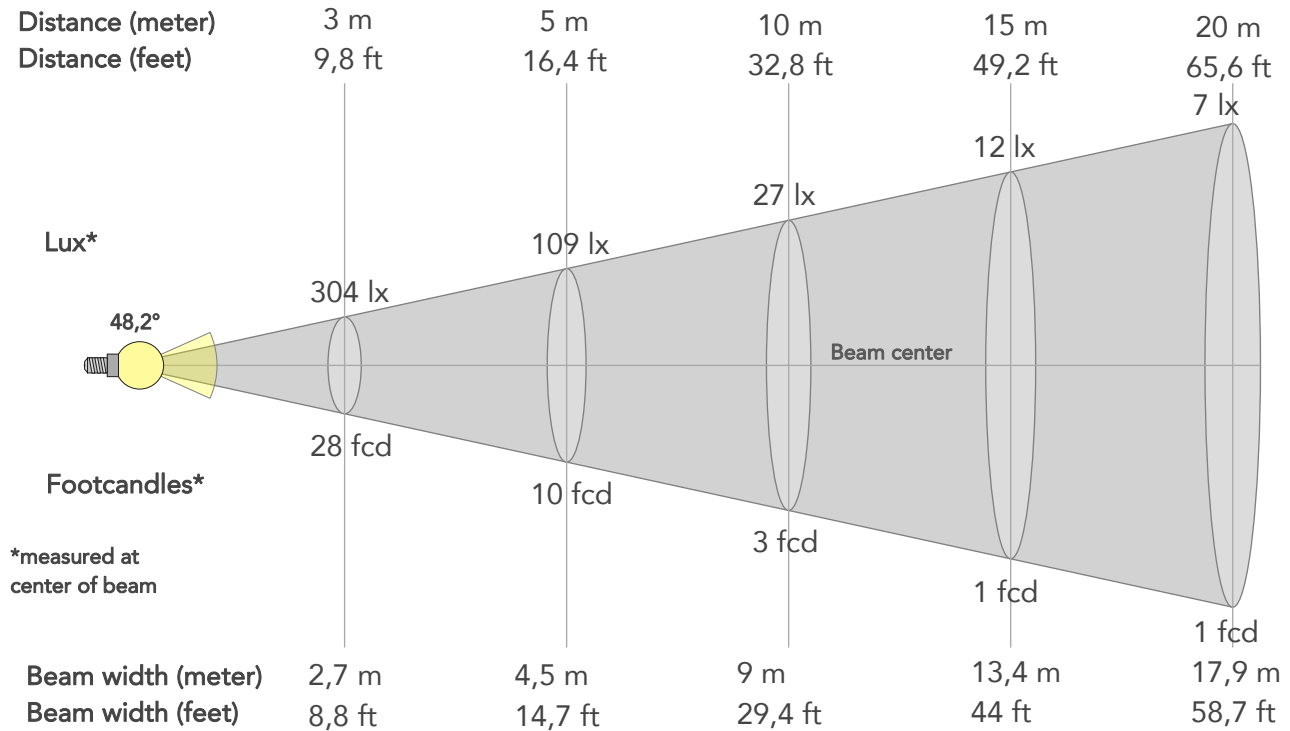
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	75	-13%	-1%
2	82	-8%	6%
3	82	-5%	10%
4	87	0%	7%
5	89	0%	3%
6	94	0%	-2%
7	95	-3%	-1%
8	87	-8%	0%
9	84	-10%	9%
10	78	-4%	16%
11	72	2%	14%
12	88	5%	1%
13	87	9%	-4%
14	78	12%	-13%
15	73	0%	-22%
16	85	-6%	-6%



BEAM DETAILS



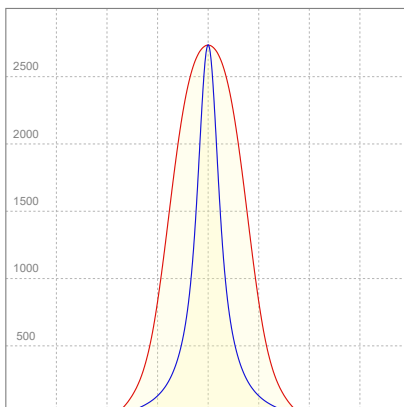
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
48,2°	92,4°	127,6°	95,0%	80,4%



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	2733lx	683lx	304lx	171lx	109lx	49lx	27lx	12lx	7lx	4lx	3lx	2lx	1lx
Footcand.	254fcd	63fcd	28fcd	16fcd	10fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,8m	2,7m	3,6m	4,5m	6,7m	9m	13,4m	17,9m	22,4m	26,9m	35,8m	44,8m
Beam wid.	3ft	5,9ft	8,8ft	11,7ft	14,7ft	22ft	29,4ft	44ft	58,7ft	73,4ft	88,1ft	117,4ft	146,8ft

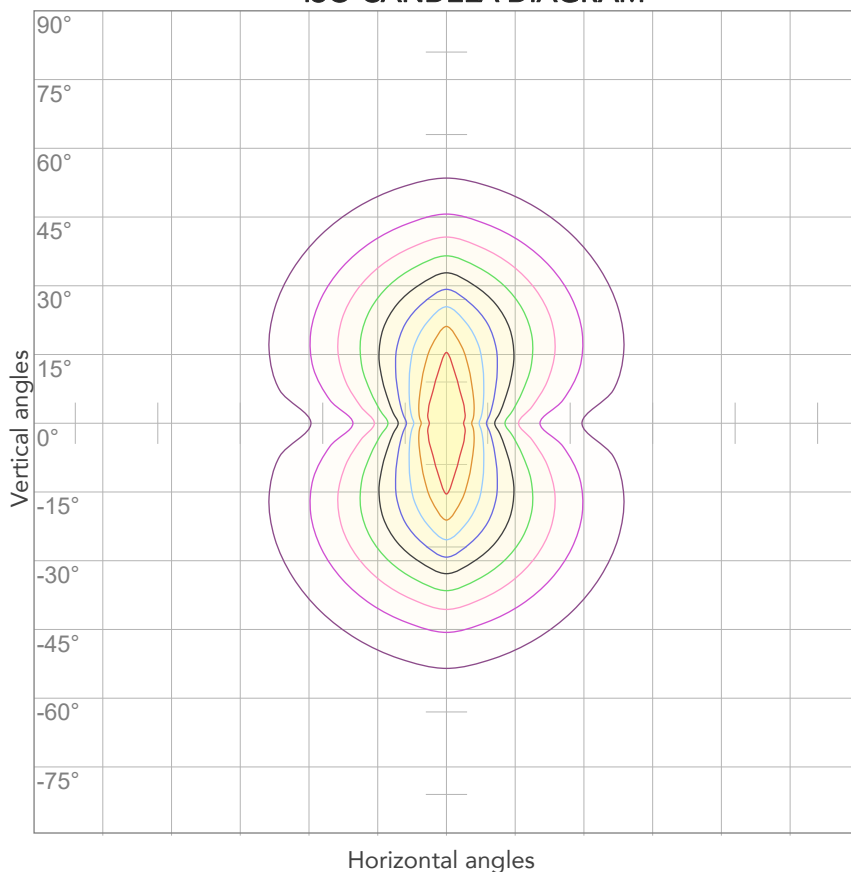
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,197A	42,2W	61lm/W

ISO CANDELA DIAGRAM



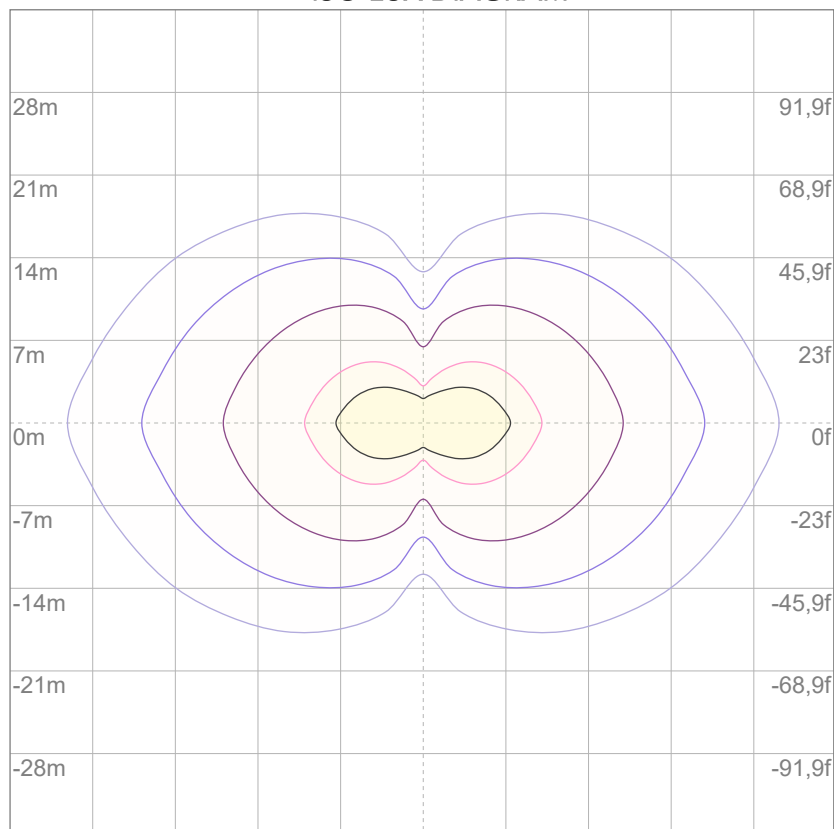
10%	273 cd
20%	547 cd
30%	820 cd
40%	1093 cd
50%	1367 cd
60%	1640 cd
70%	1913 cd
80%	2187 cd

Conditions:

Number of c-planes: 4

Candela at center: 2733 cd

ISO LUX DIAGRAM



3%	0,820 lx
5%	1,37 lx
10%	2,73 lx
30%	8,20 lx
50%	13,7 lx

Conditions:

Number of c-planes: 4

Lux at center: 27,3 lx

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

Total lumen output:

2168 lm

Peak candela output:

1793 cd

Light quality:

CRI: 83,6

Color temperature:

6938 K



PRODUCT NAME:

ARCSHINES18VW

MEASURAMENT CONDITIONS:

Beam angle:

15°+ Filter 30°x60°

Target:

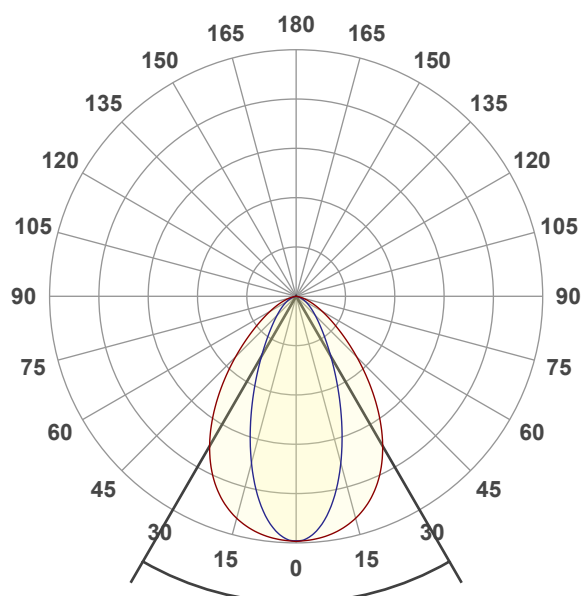
Cold White

Operator:

Paolo Carvone

Date and time:

08/09/2022 13:41:40

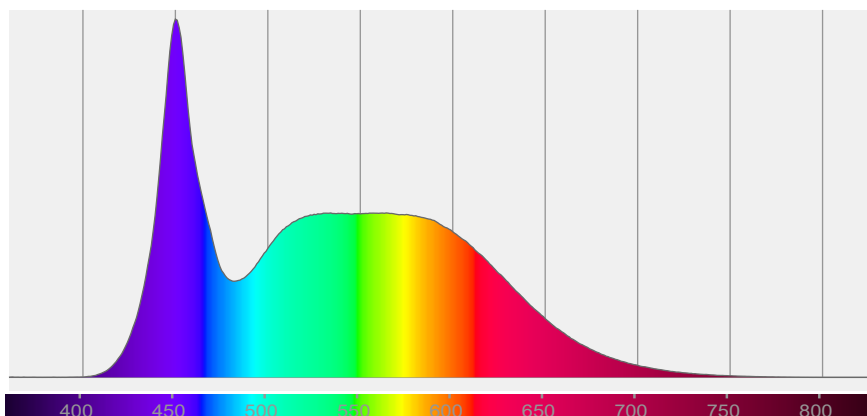


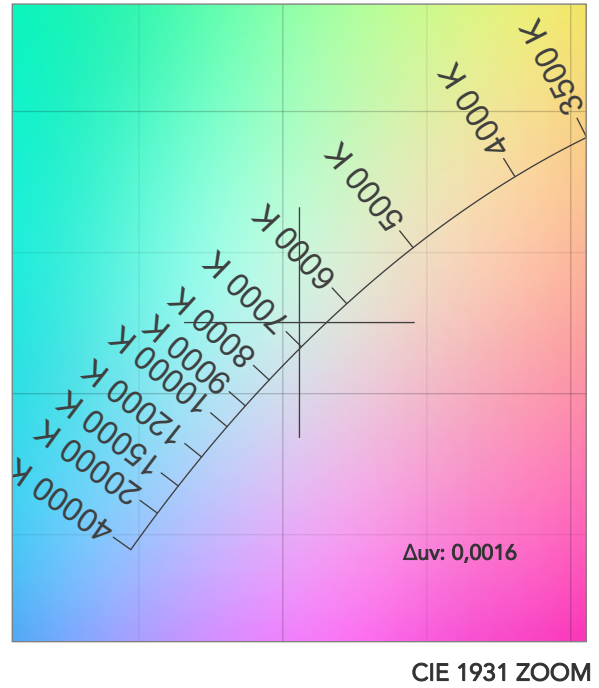
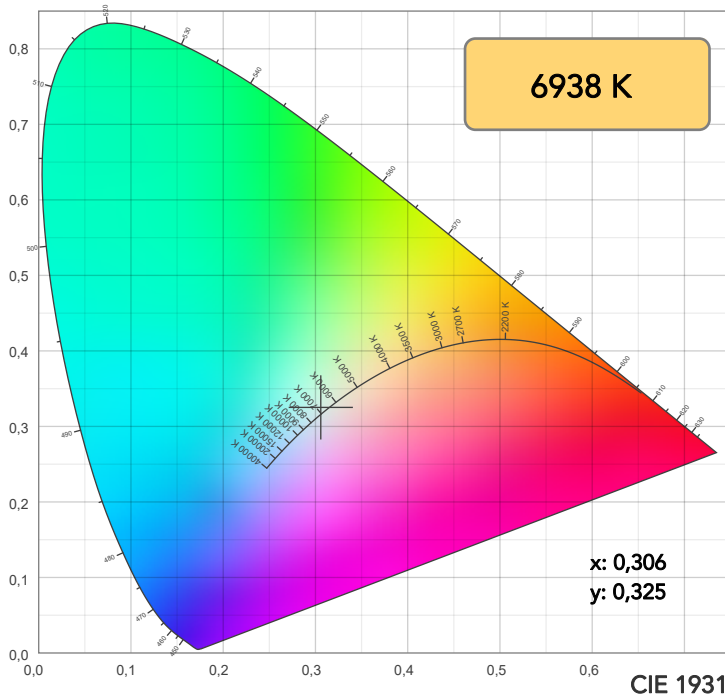
Beam angle 50%: 60°

Field angle 10%: 109,5°

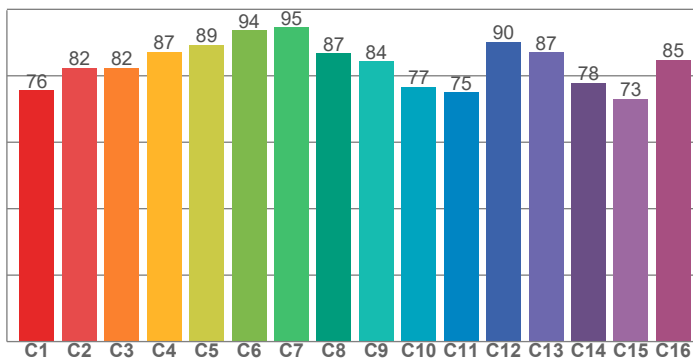
Cut off angle 2.5%: 143,3°

Spectra

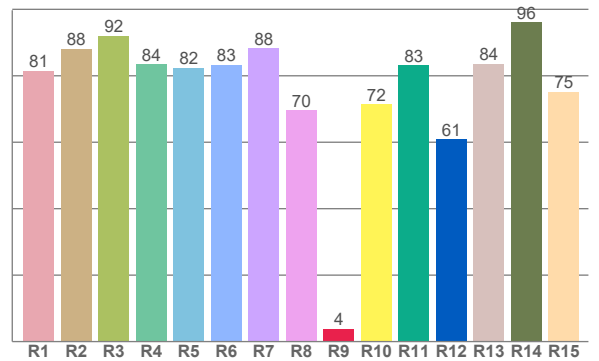




TM30: 84,0



CRI: 83,6 (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
81,5	88,1	92,1	83,5	82,4	83,3	88,3	69,6	3,8	71,5	83,3	60,9	83,6	96,0	75,2

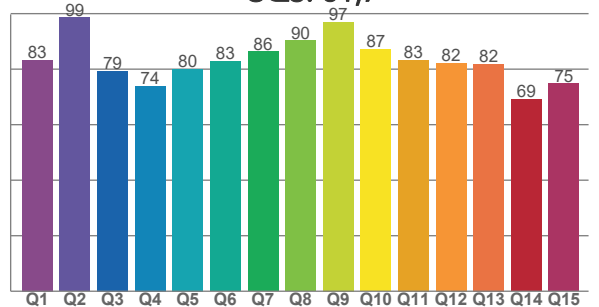
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
75,6	82,4	82,4	87,3	89,3	93,6	94,5	86,8	84,3	76,7	75,0	90,1	87,1	77,8	73,0	84,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
83,4	98,5	79,3	74,0	80,0	82,8	86,4	90,2	97,0	87,2	83,3	82,2	81,9	69,1	74,8

CQS: 81,7



COLOR PARAMETERS

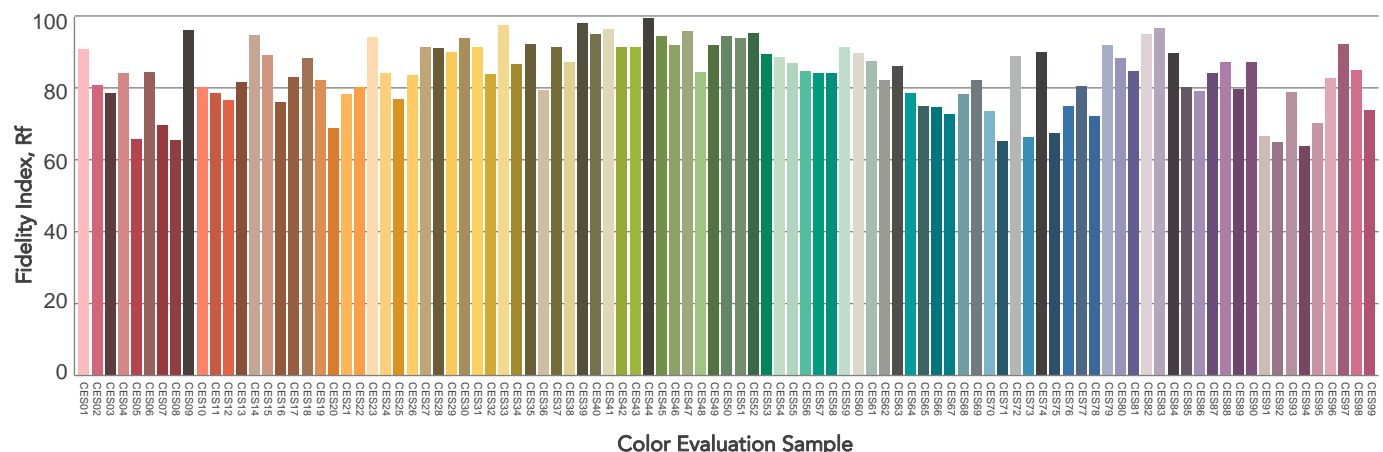
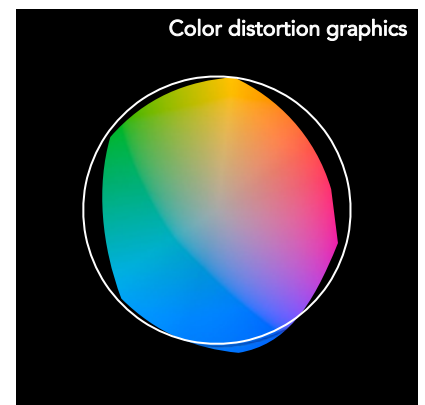
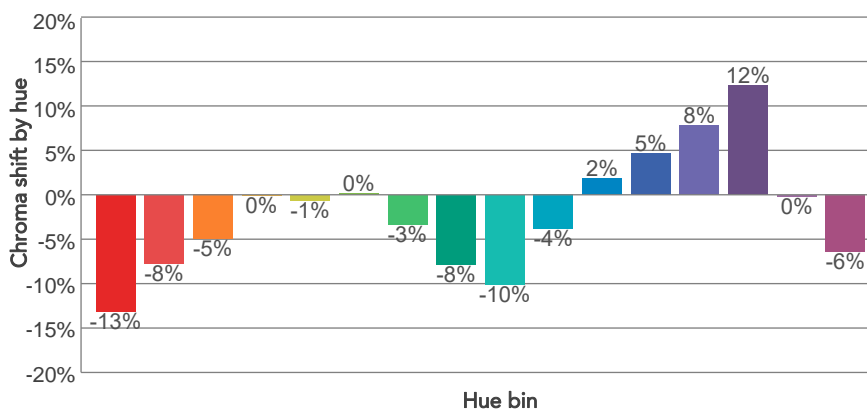
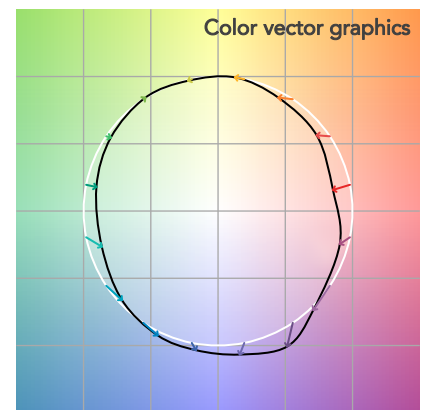
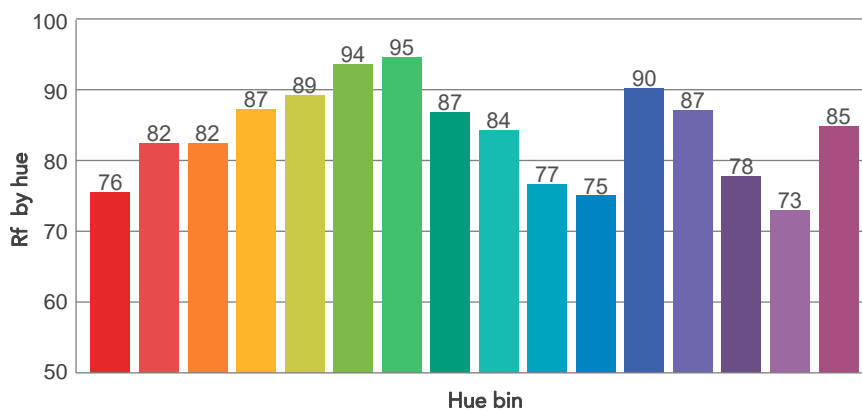
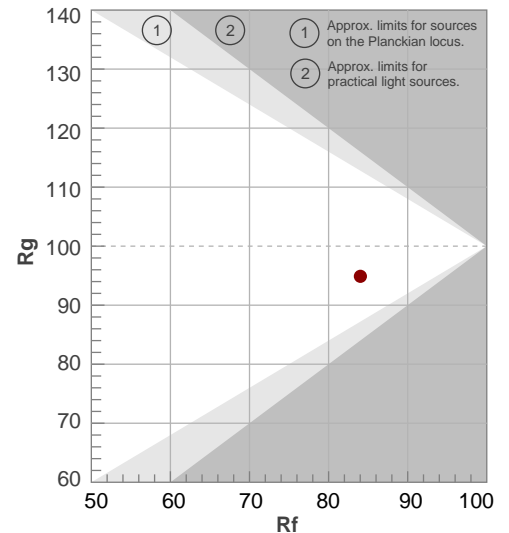
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6938 K	83,6	3,8	84,0	94,9	81,7	71	0,306	0,325	0,0016

TM30 DETAILS

Rf 84,0
Fidelity index Rf

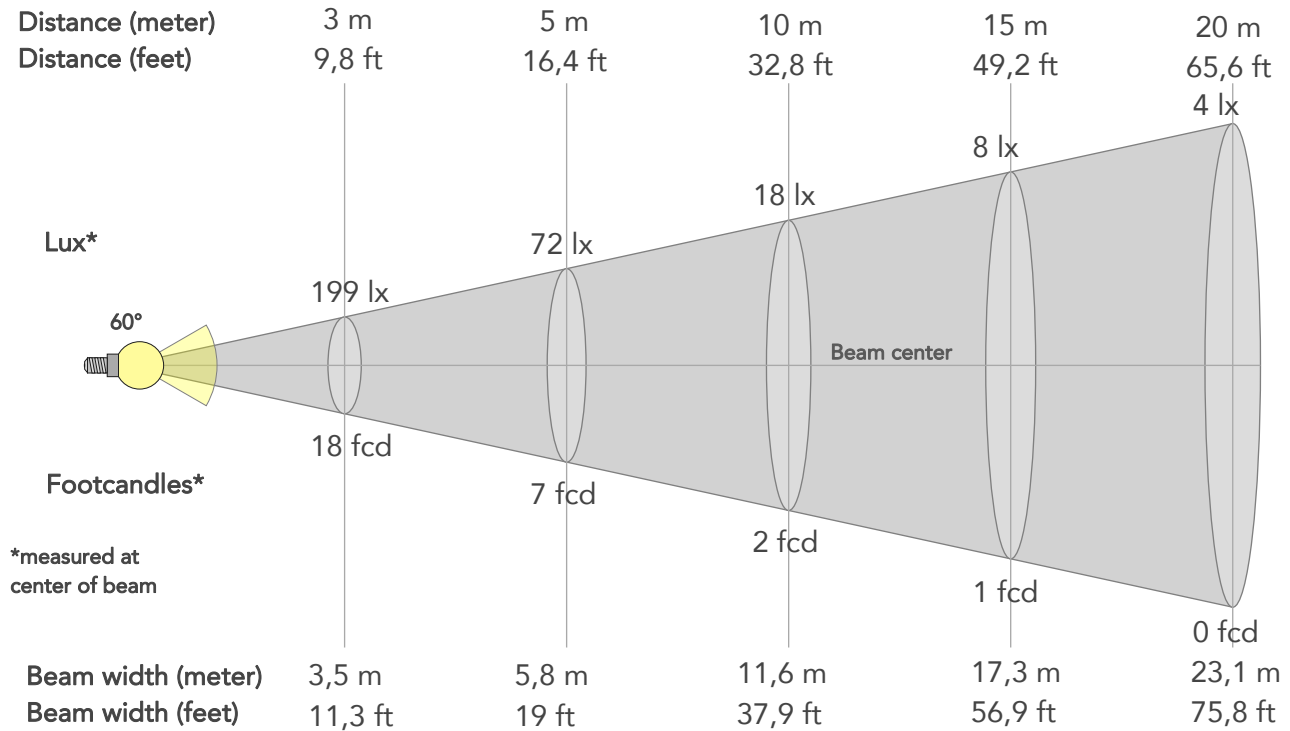
Rg 94,9
Gammut index

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	-1%	3%
6	94	0%	-2%
7	95	-3%	-1%
8	87	-8%	0%
9	84	-10%	9%
10	77	-4%	14%
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

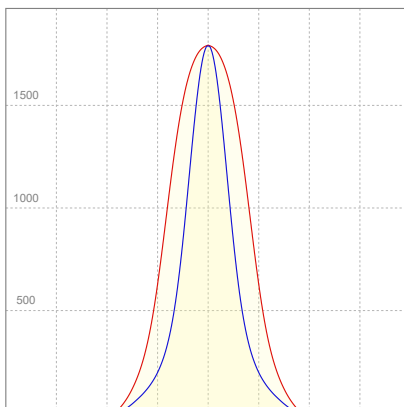
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
60°	109,5°	143,3°	93,5%	77,9%



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	1790lx	448lx	199lx	112lx	72lx	32lx	18lx	8lx	4lx	3lx	2lx	1lx	1lx
Footcand.	166fcd	42fcd	18fcd	10fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,2m	2,3m	3,5m	4,6m	5,8m	8,7m	11,6m	17,3m	23,1m	28,9m	34,7m	46,2m	57,8m
Beam wid.	3,8ft	7,6ft	11,3ft	15,1ft	19ft	28,4ft	37,9ft	56,9ft	75,8ft	94,8ft	113,7ft	151,6ft	189,5ft

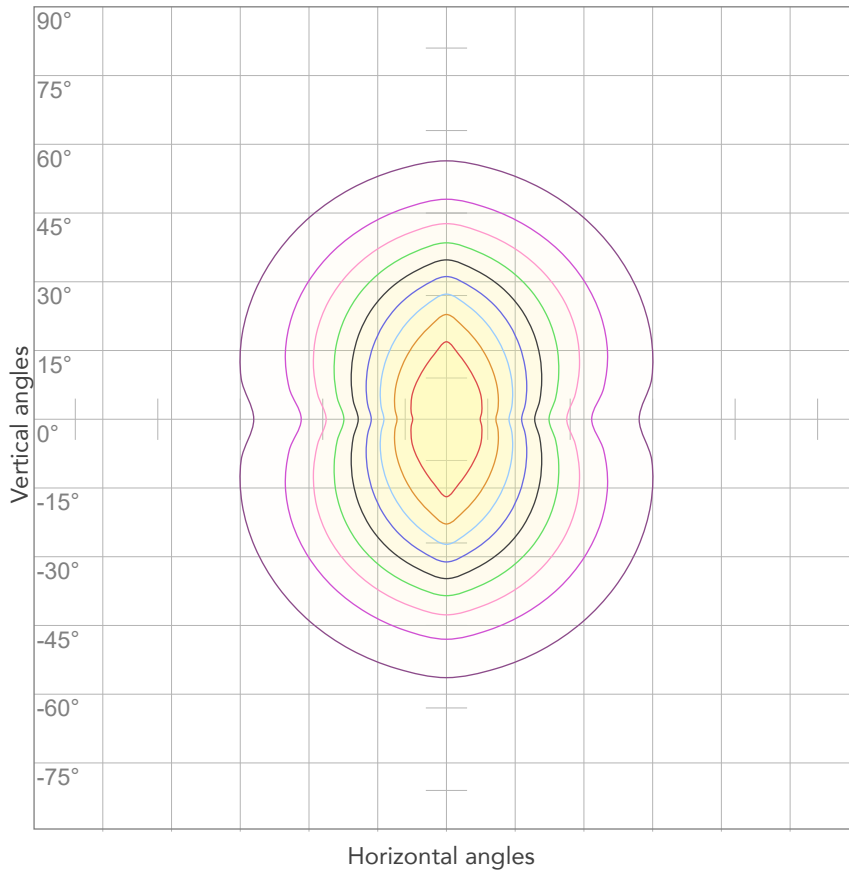
LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,197A	42,2W	51lm/W

ISO CANDELA DIAGRAM



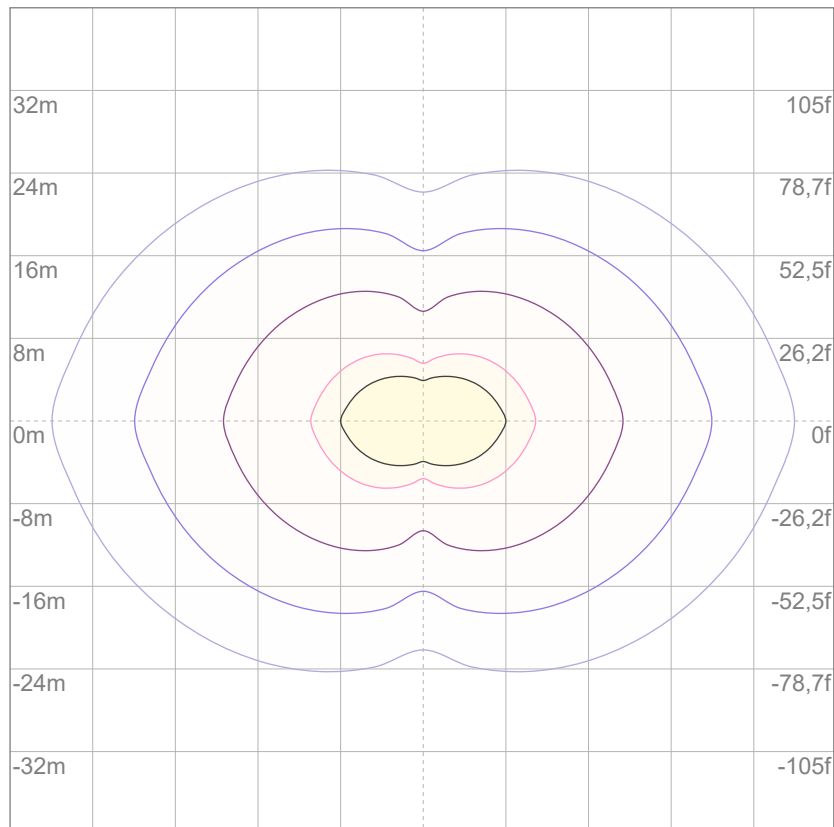
10%	179 cd
20%	358 cd
30%	537 cd
40%	716 cd
50%	895 cd
60%	1074 cd
70%	1253 cd
80%	1432 cd

Conditions:

Number of c-planes: 4

Candela at center: 1790 cd

ISO LUX DIAGRAM



3%	0,537 lx
5%	0,895 lx
10%	1,79 lx
30%	5,37 lx
50%	8,95 lx

Conditions:

Number of c-planes: 4

Lux at center: 17,9 lx

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