

Photometric Test Report



EclProfile FWHPVW

450W high quality VariableWhite LED
ellipsoidal, compatible with PRL and PRLZ lenses

(ECLPRL14BK)

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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:

10906 lm

Peak candela output:

254582 cd

Light quality:

CRI: 98,1

Color temperature:

4170 K

PRODUCT NAME:

ECLFWHPVW

MEASURAMENT CONDITIONS:

Beam angle:

PRL14

Target:

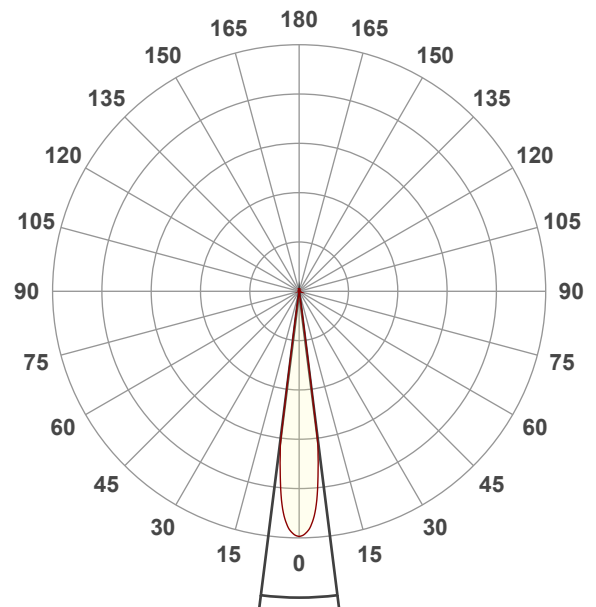
Full On

Operator:

Giuseppe della Peruta

Date and time:

08/01/2026 14:29:59

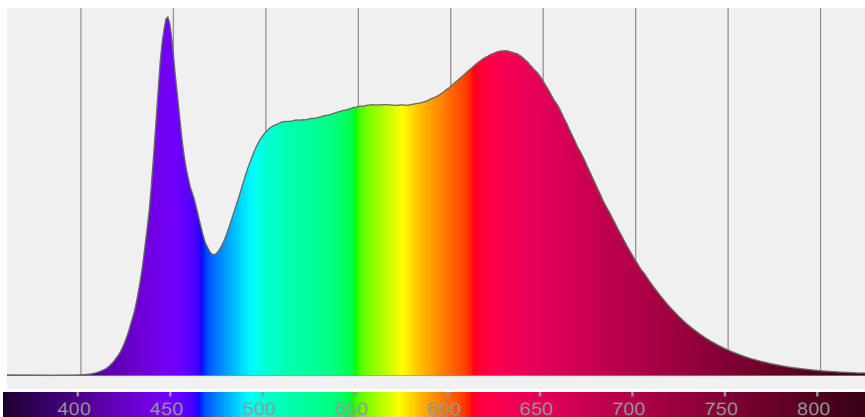


Beam angle 50%: 14,4°

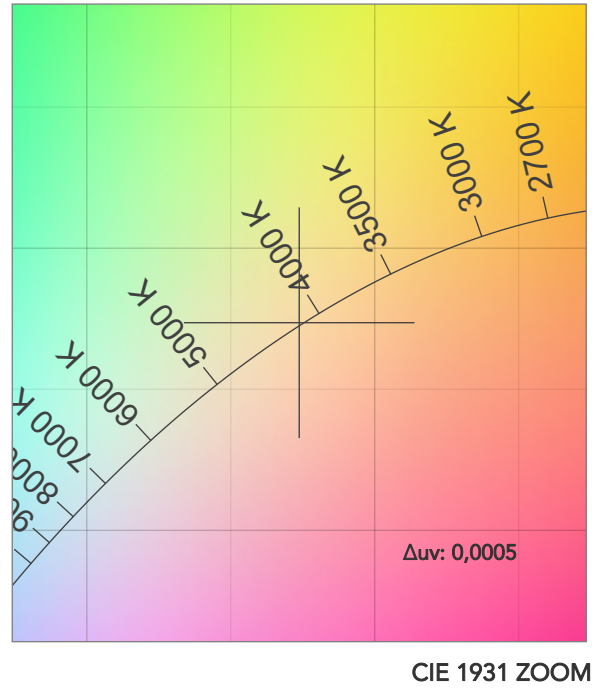
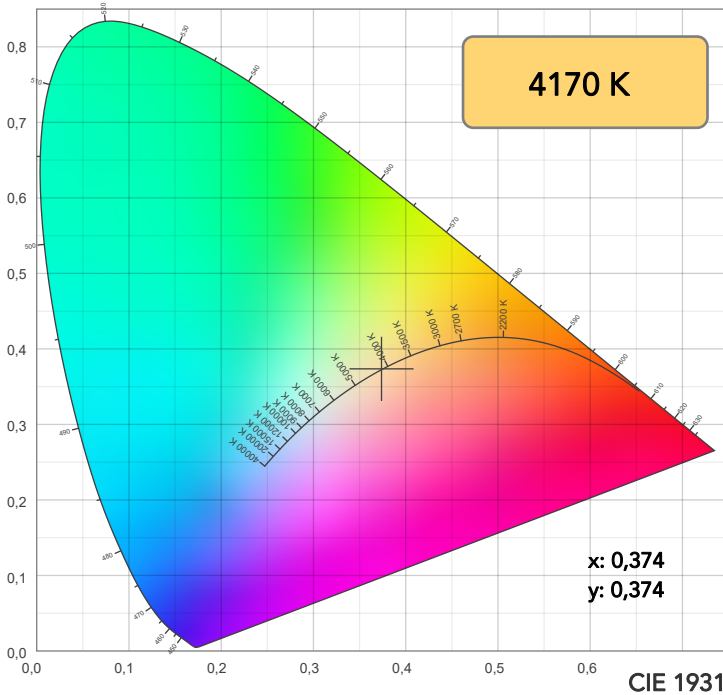
Field angle 10%: 15,6°

Cut off angle 2.5%: 16°

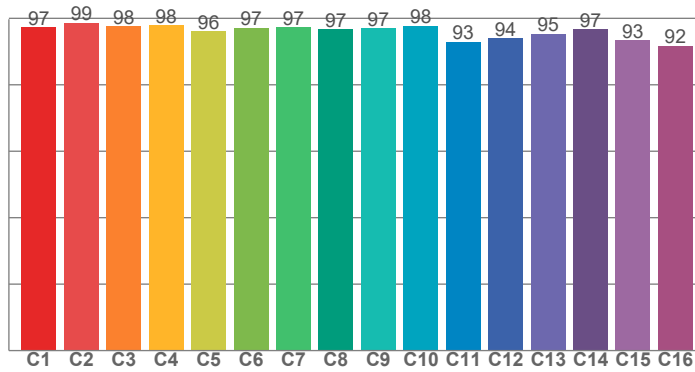
Spectra



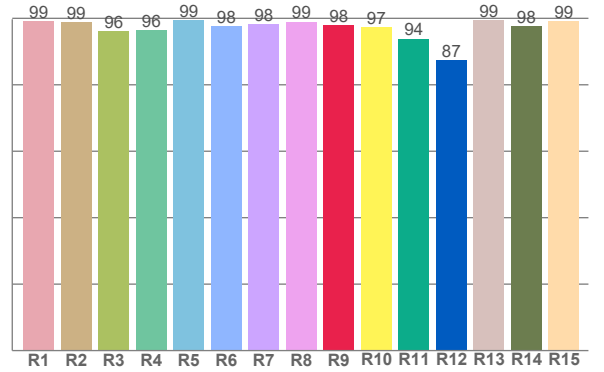
COLOR DETAILS



TM30: 96,1



CRI: 98,1 (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
99,1	99,0	96,2	96,3	99,3	97,6	98,2	99,0	97,8	97,4	93,9	87,5	99,4	97,6	99,2

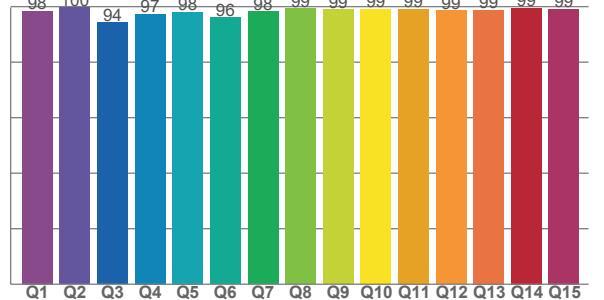
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
97,3	98,7	97,6	98,0	96,1	97,1	97,3	96,7	97,0	97,7	92,9	93,9	95,4	96,7	93,4	91,7

CQS Q values

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

CQS: 97,8



COLOR PARAMETERS

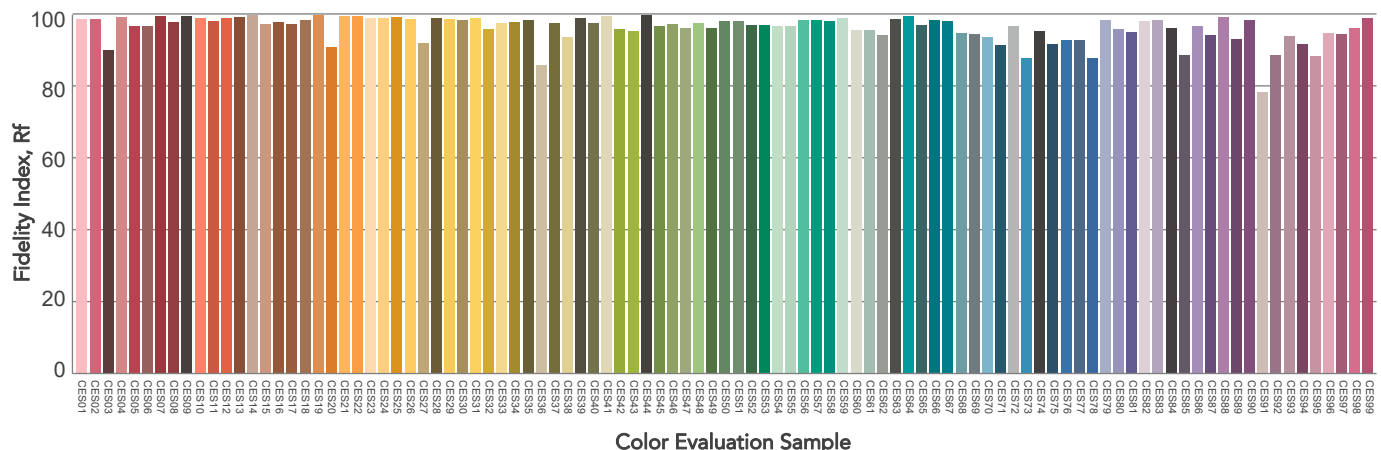
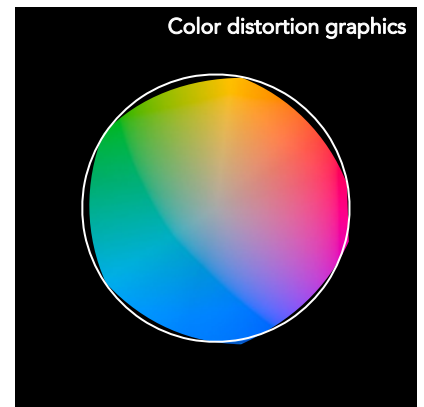
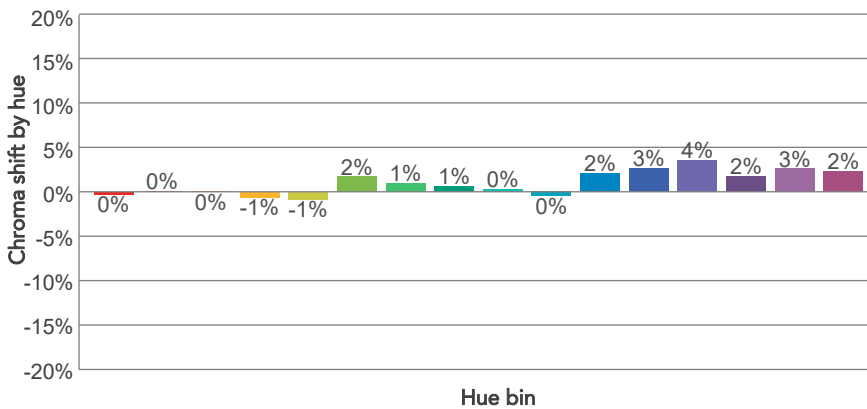
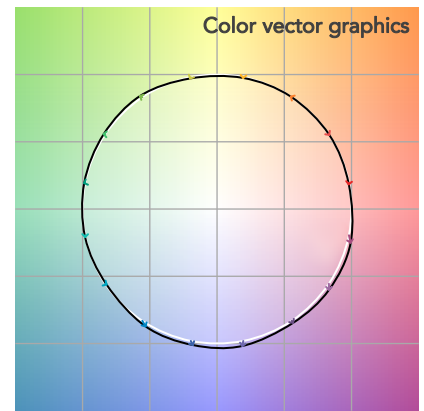
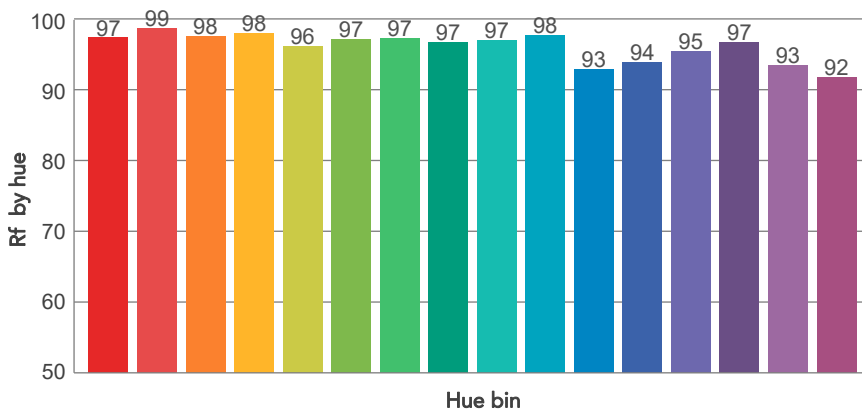
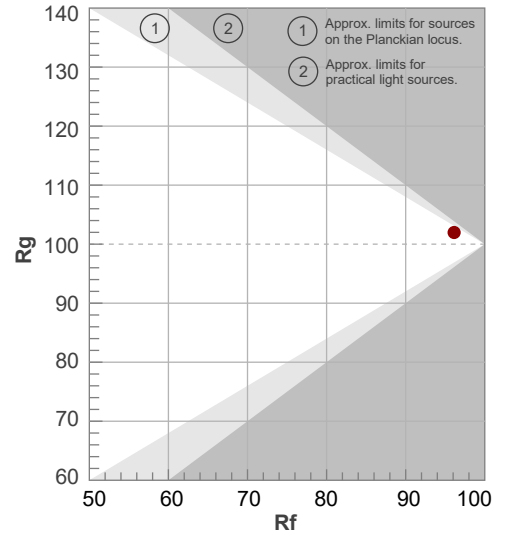
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4170 K	98,1	97,8	96,1	102,0	97,8	98	0,374	0,374	0,0005

TM30 DETAILS

Rf 96,1
Fidelity index Rf

Rg 102,0
Gammut index

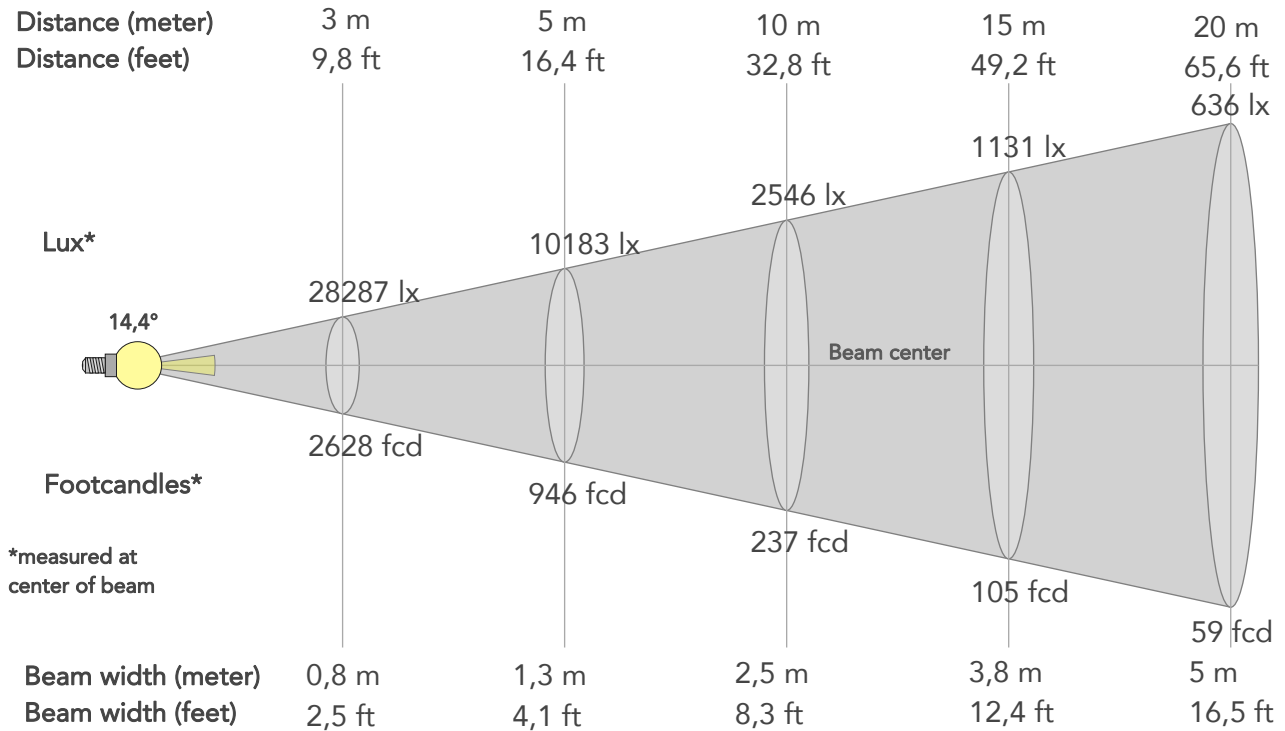
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	97	0%	-1%
2	99	0%	0%
3	98	0%	1%
4	98	-1%	0%
5	96	-1%	1%
6	97	2%	1%
7	97	1%	1%
8	97	1%	0%
9	97	0%	1%
10	98	0%	1%
11	93	2%	4%
12	94	3%	2%
13	95	4%	-1%
14	97	2%	0%
15	93	3%	-4%
16	92	2%	-5%



BEAM DETAILS



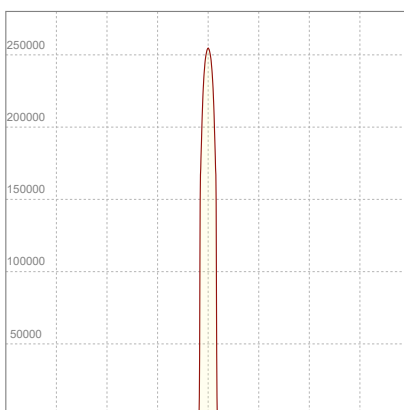
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
14,4°	15,6°	16°	100,0%	100,0%



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	254582lx	63646lx	28287lx	15911lx	10183lx	4526lx	2546lx	1131lx	636lx	407lx	283lx	159lx	102lx
Footcand.	23651fcd	5913fcd	2628fcd	1478fcd	946fcd	420fcd	237fcd	105fcd	59fcd	38fcd	26fcd	15fcd	9fcd
Beam wid.	0,3m	0,5m	0,8m	1m	1,3m	1,9m	2,5m	3,8m	5m	6,3m	7,6m	10,1m	12,6m
Beam wid.	0,8ft	1,7ft	2,5ft	3,3ft	4,1ft	6,2ft	8,3ft	12,4ft	16,5ft	20,7ft	24,8ft	33,1ft	41,3ft

LINEAR DISTRIBUTION DIAGRAM

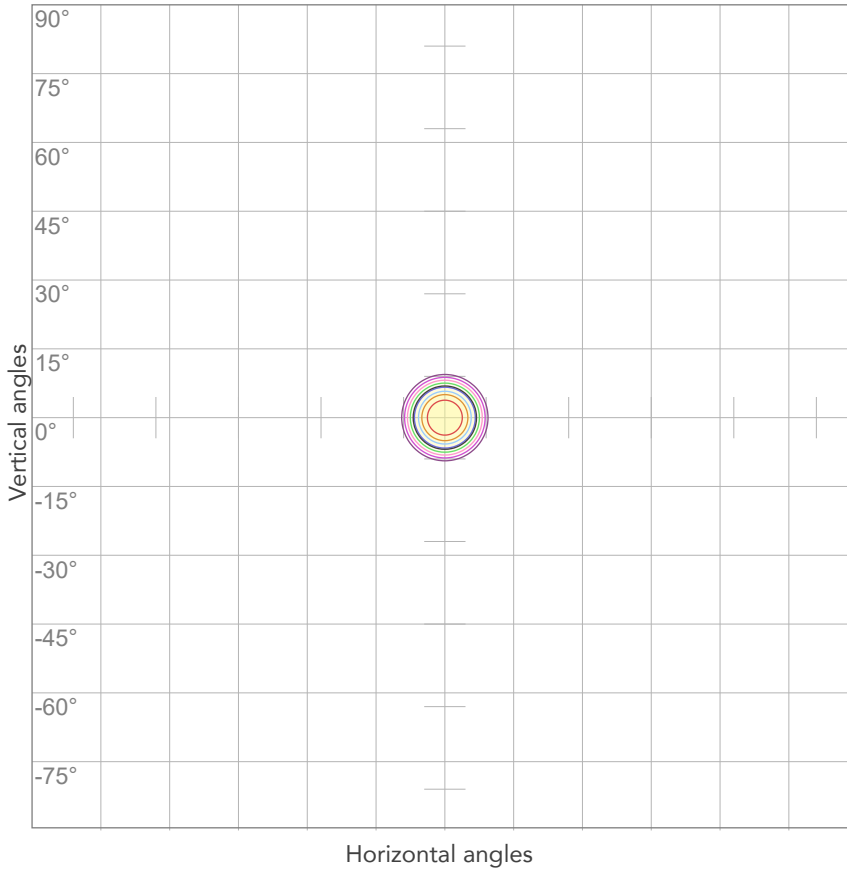


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	2,02A	442,9W	0,97	25lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



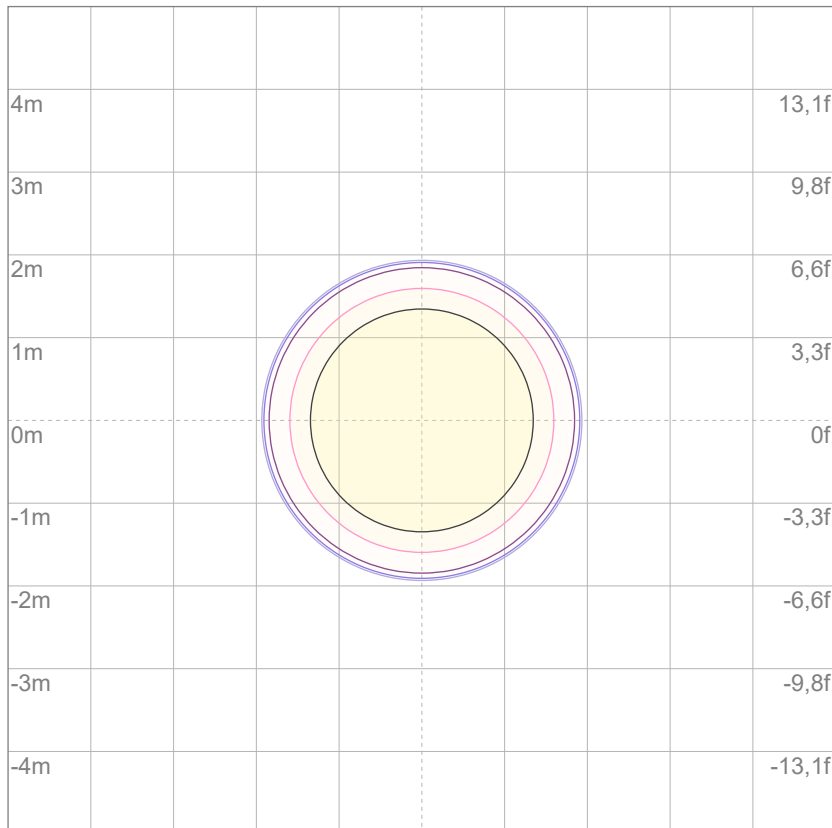
10%	25458 cd
20%	50916 cd
30%	76375 cd
40%	101833 cd
50%	127291 cd
60%	152749 cd
70%	178208 cd
80%	203666 cd

Conditions:

Number of c-planes: 2

Candela at center: 254582 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	76,4 lx
5%	127 lx
10%	255 lx
30%	764 lx
50%	1273 lx

Conditions:

Number of c-planes: 2

Lux at center: 2546 lx

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



Total lumen output:

8113 lm

Peak candela output:

189570 cd

Light quality:

CRI: 96,5

Color temperature:

2613 K

PRODUCT NAME:

ECLFWHPVW

MEASURAMENT CONDITIONS:

Beam angle:

PRL14

Target:

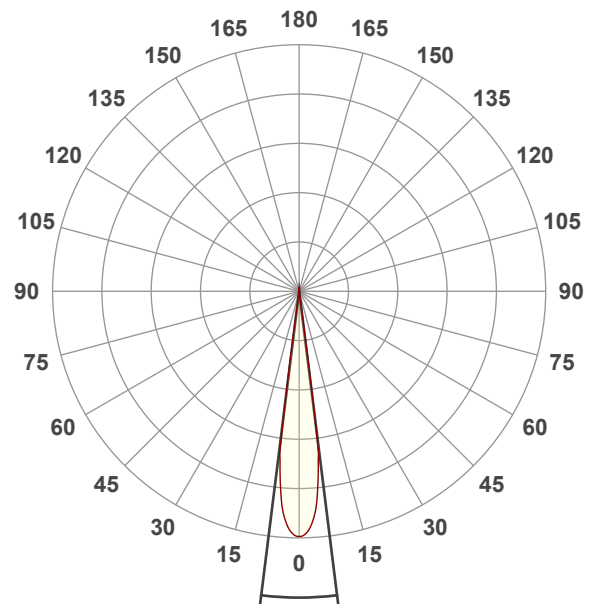
Warm White

Operator:

Giuseppe della Peruta

Date and time:

08/01/2026 14:37:38

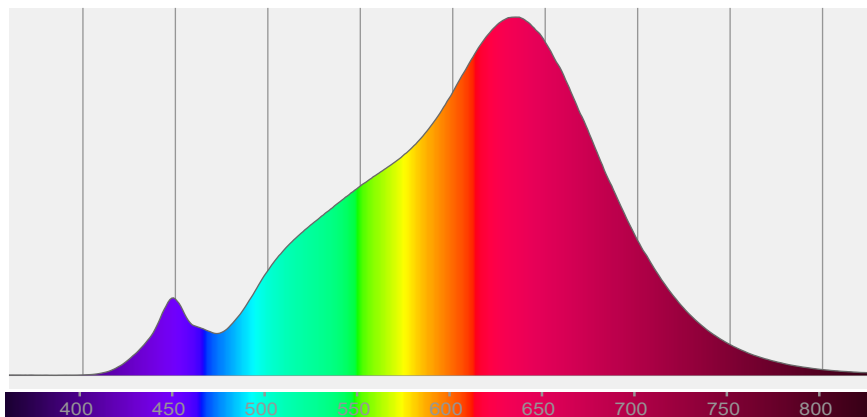


Beam angle 50%: 14,2°

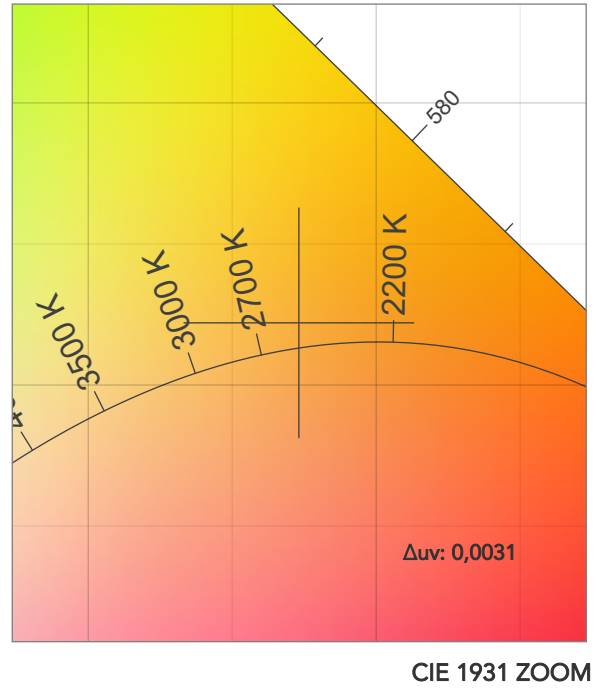
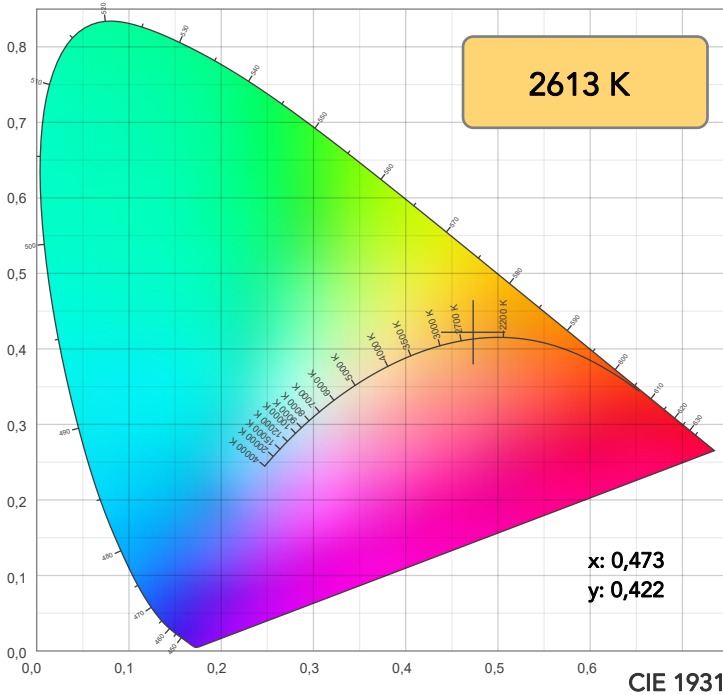
Field angle 10%: 15,5°

Cut off angle 2.5%: 15,8°

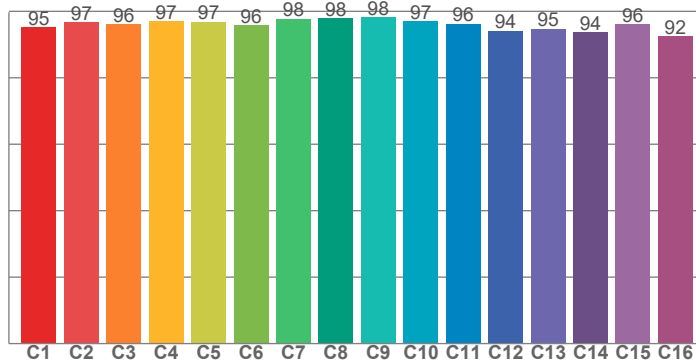
Spectra



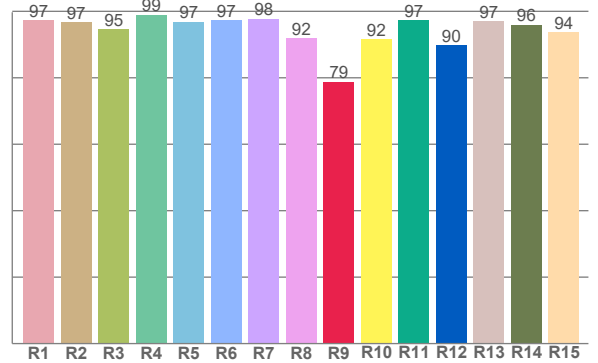
COLOR DETAILS



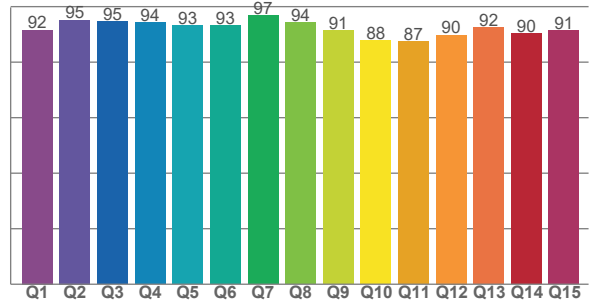
TM30: 96,0



CRI: 96,5 (R1-R8)



CQS: 91,6



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97,4	96,8	94,7	99,0	96,9	97,4	97,8	92,0	78,8	91,6	97,4	89,9	97,1	96,0	93,7

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,2	96,8	96,2	97,0	96,9	95,8	97,8	97,9	98,1	97,0	96,3	94,1	94,7	93,7	96,0	92,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91,5	95,2	94,6	94,4	93,3	93,2	96,7	94,2	91,4	87,9	87,5	89,8	92,4	90,4	91,4

COLOR PARAMETERS

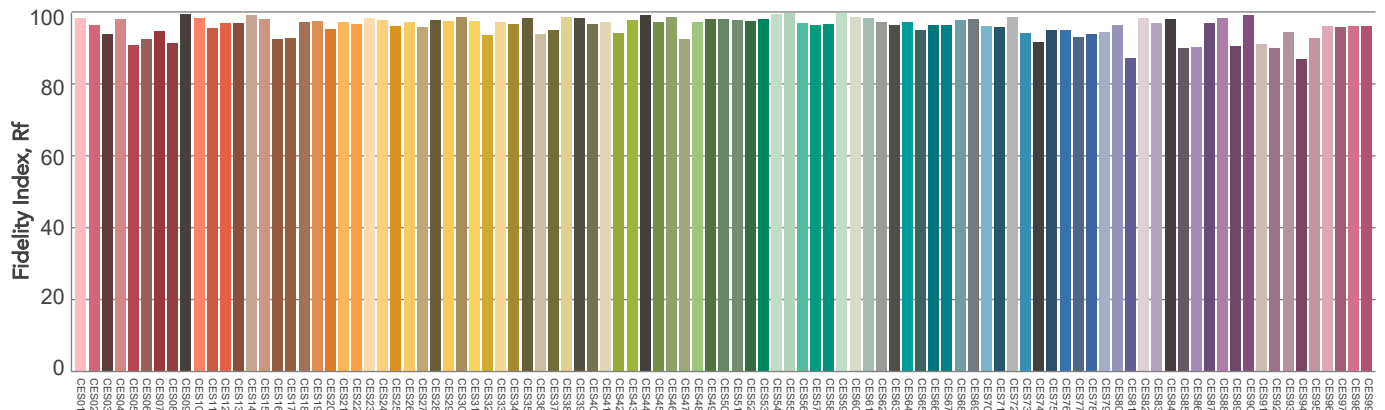
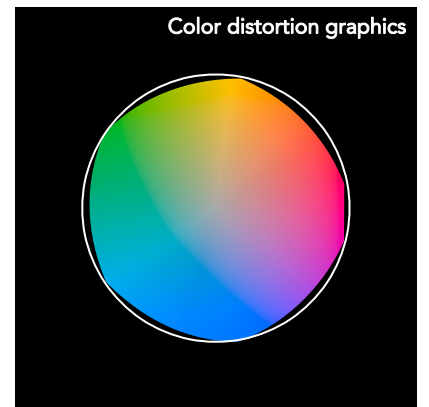
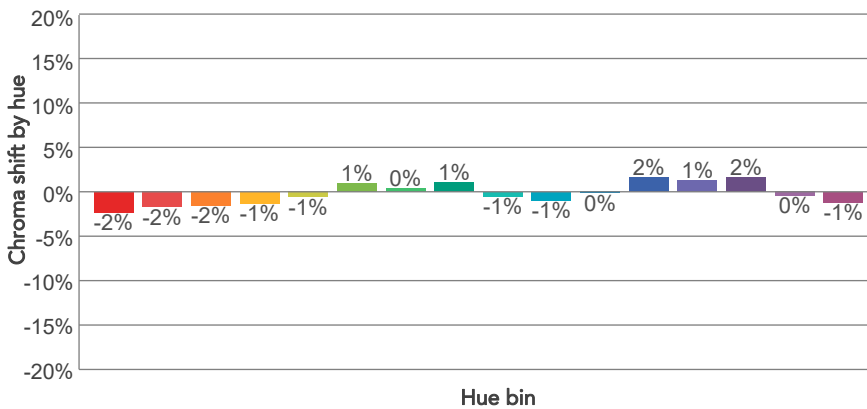
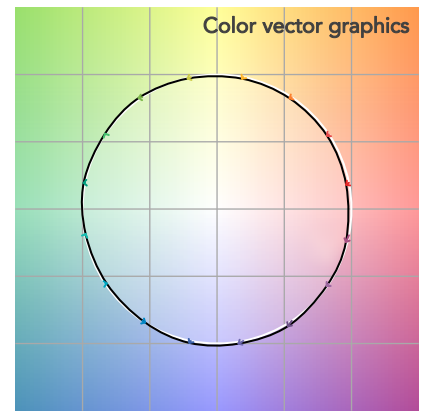
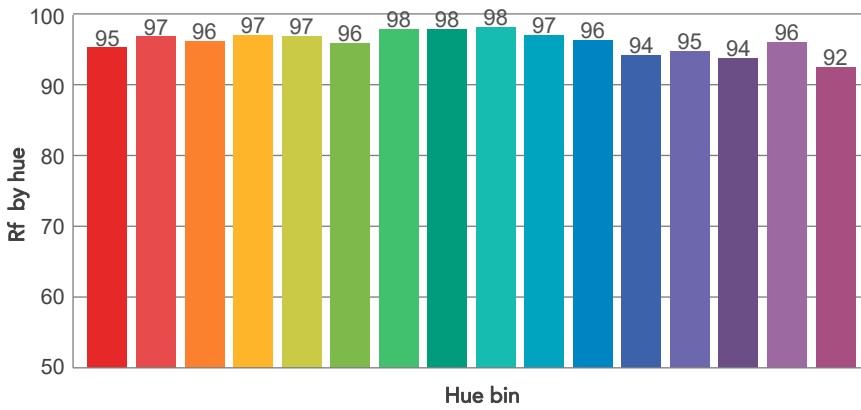
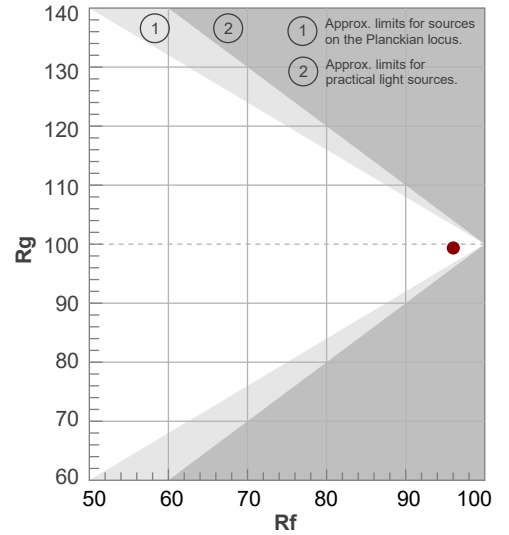
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2613 K	96,5	78,8	96,0	99,4	91,6	96	0,473	0,422	0,0031

TM30 DETAILS

Rf 96,0
Fidelity index Rf

Rg 99,4
Gammut index

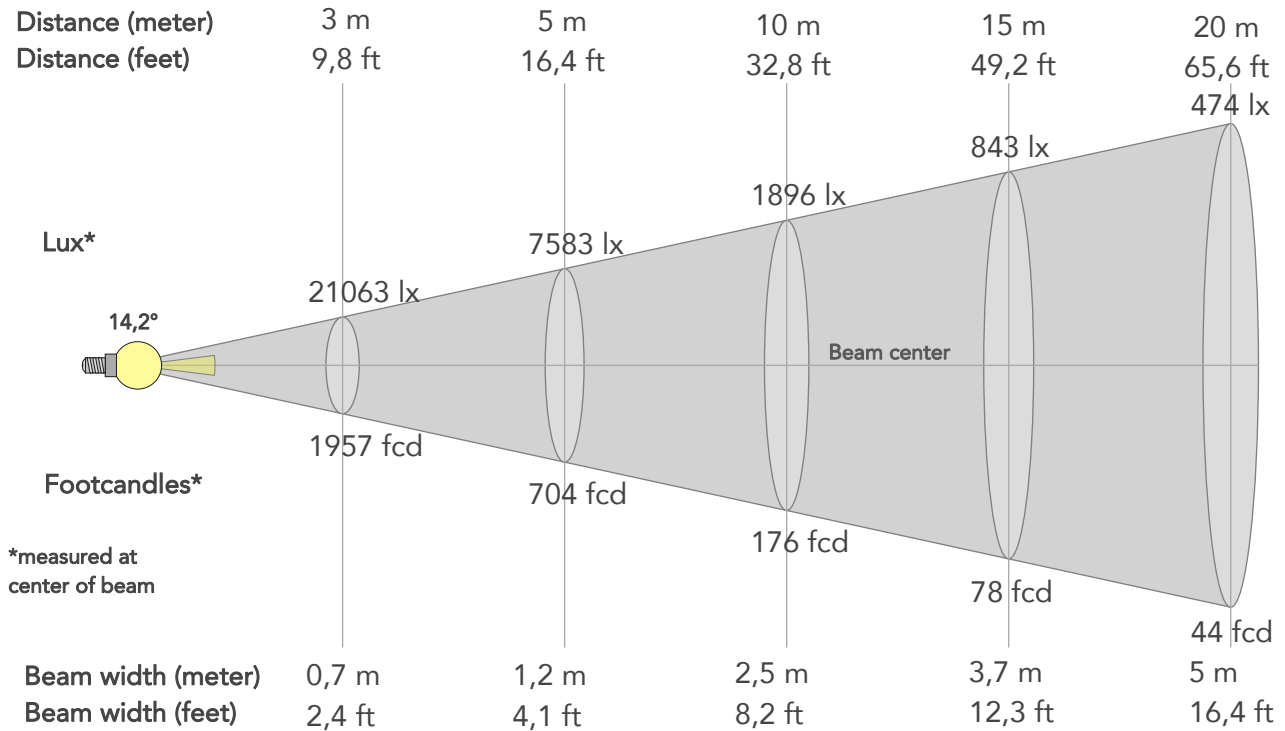
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	-2%	-1%
2	97	-2%	0%
3	96	-2%	1%
4	97	-1%	1%
5	97	-1%	2%
6	96	1%	3%
7	98	0%	0%
8	98	1%	0%
9	98	-1%	-1%
10	97	-1%	0%
11	96	0%	2%
12	94	2%	-1%
13	95	1%	-4%
14	94	2%	-5%
15	96	0%	-2%
16	92	-1%	-5%



BEAM DETAILS



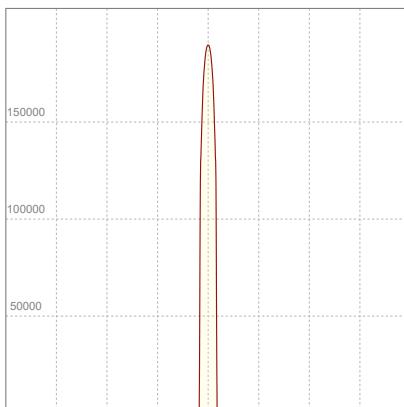
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
14,2°	15,5°	15,8°	100,0%	100,0%



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	189570lx	47392lx	21063lx	11848lx	7583lx	3370lx	1896lx	843lx	474lx	303lx	211lx	118lx	76lx
Footcand.	17612fcd	4403fcd	1957fcd	1101fcd	704fcd	313fcd	176fcd	78fcd	44fcd	28fcd	20fcd	11fcd	7fcd
Beam wid.	0,2m	0,5m	0,7m	1m	1,2m	1,9m	2,5m	3,7m	5m	6,2m	7,5m	10m	12,5m
Beam wid.	0,8ft	1,6ft	2,4ft	3,3ft	4,1ft	6,1ft	8,2ft	12,3ft	16,4ft	20,5ft	24,6ft	32,7ft	40,9ft

LINEAR DISTRIBUTION DIAGRAM

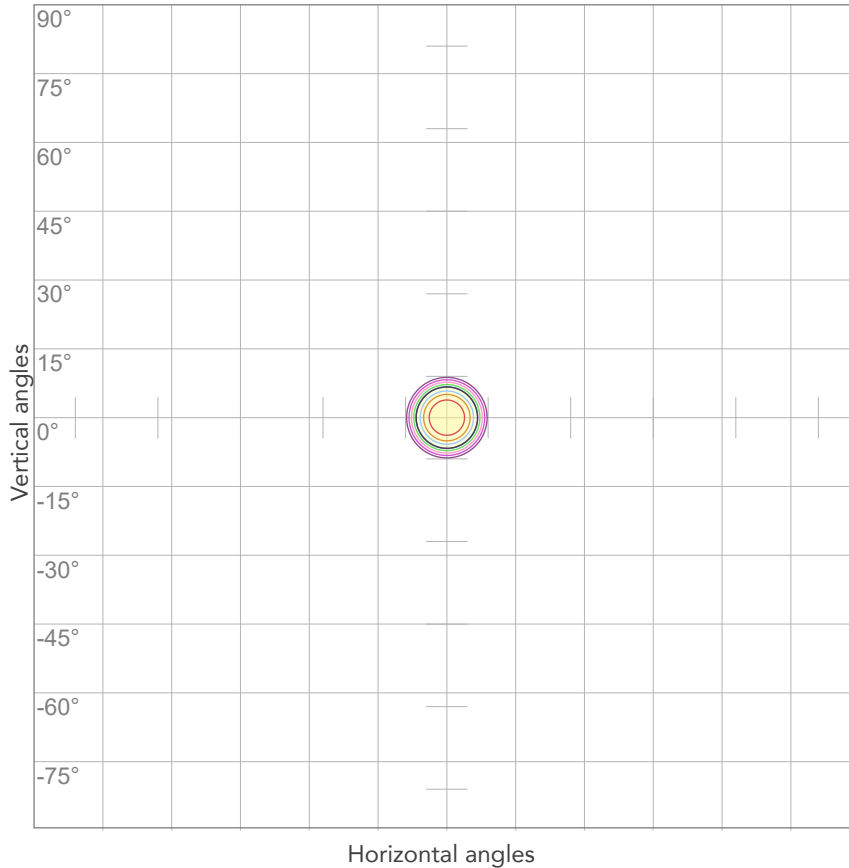


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	1,77A	384,6W	0,96	21lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



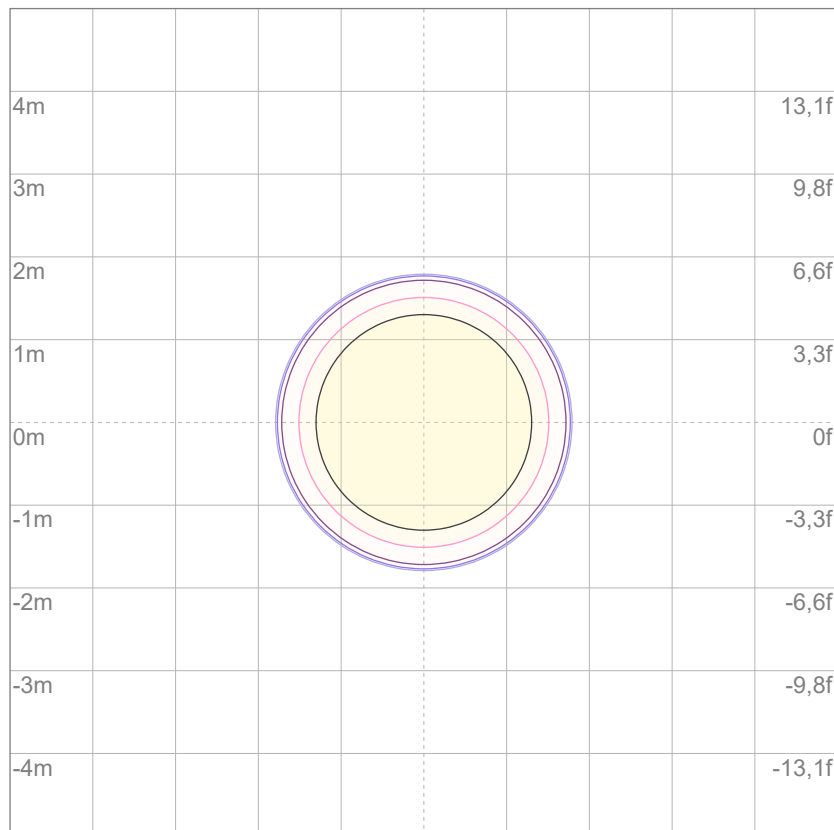
10%	18957 cd
20%	37914 cd
30%	56871 cd
40%	75828 cd
50%	94785 cd
60%	113742 cd
70%	132699 cd
80%	151656 cd

Conditions:

Number of c-planes: 2

Candela at center: 189570 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	56,9 lx
5%	94,8 lx
10%	190 lx
30%	569 lx
50%	948 lx

Conditions:

Number of c-planes: 2

Lux at center: 1896 lx

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



Total lumen output:

10470 lm

Peak candela output:

244908 cd

Light quality:

CRI: 94,2

Color temperature:

6501 K

PRODUCT NAME:

ECLFWHPVW

MEASURAMENT CONDITIONS:

Beam angle:

PRL14

Target:

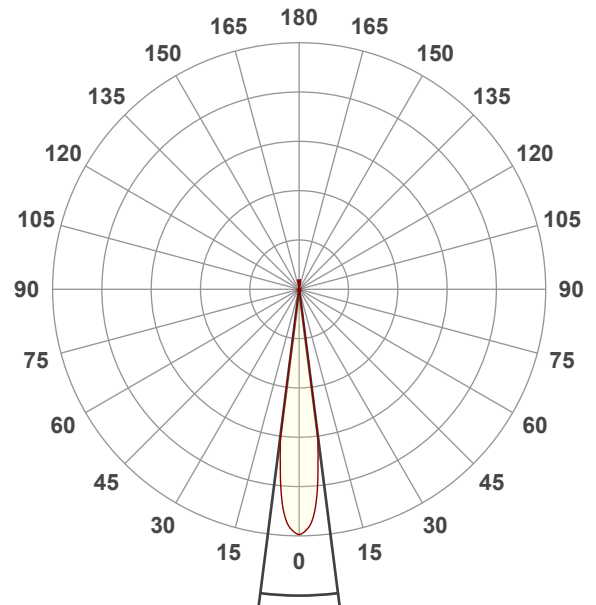
Cold White

Operator:

Giuseppe della Peruta

Date and time:

08/01/2026 14:42:07

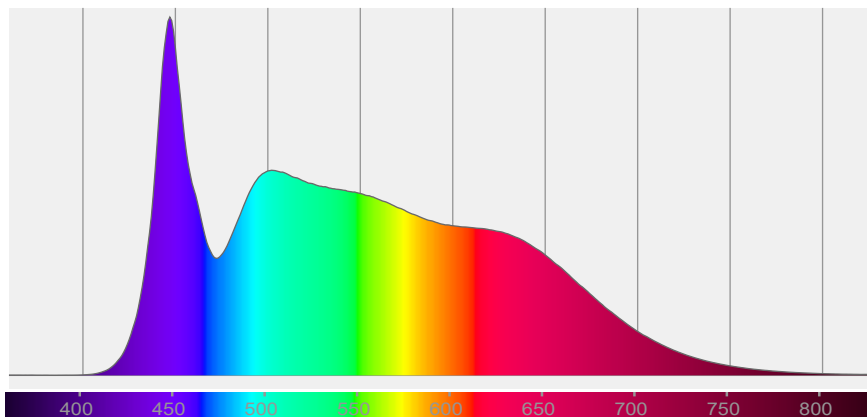


Beam angle 50%: 14,6°

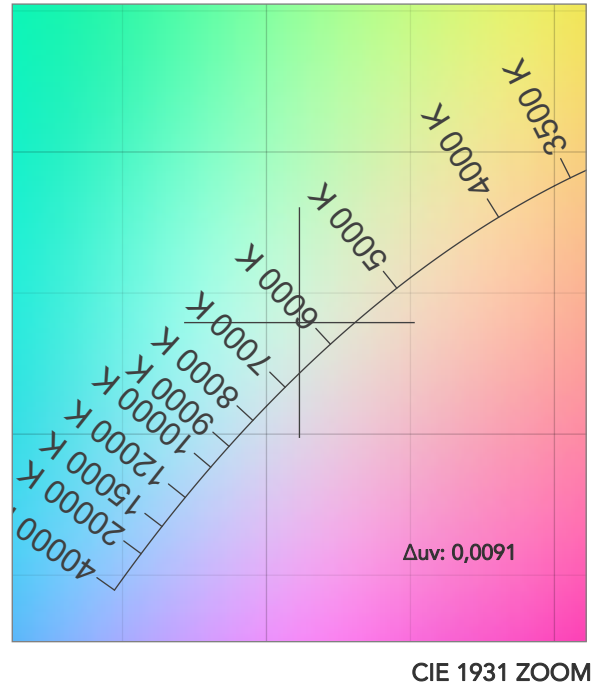
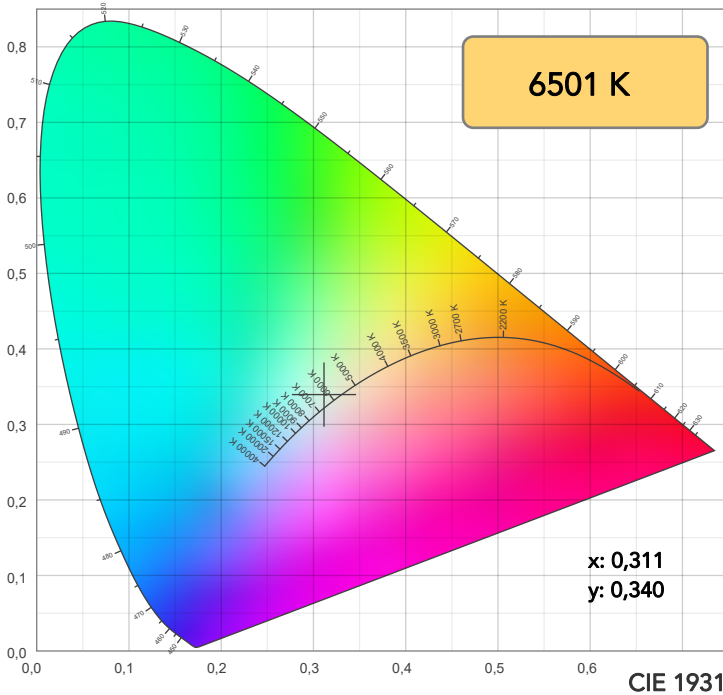
Field angle 10%: 15,3°

Cut off angle 2.5%: 15,4°

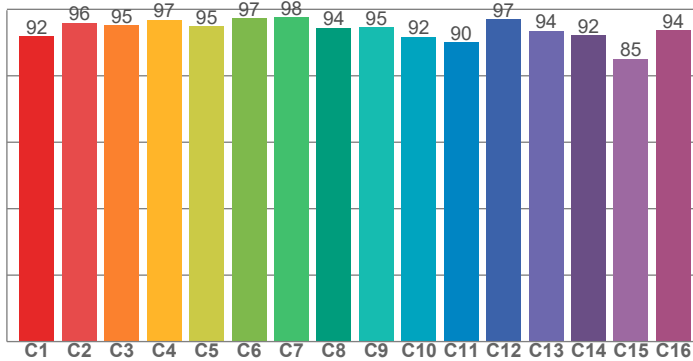
Spectra



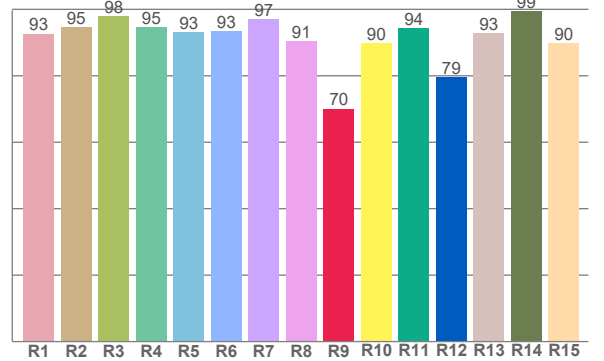
COLOR DETAILS



TM30: 93,9



CRI: 94,2 (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
92,7	94,7	98,0	94,5	93,1	93,3	97,1	90,5	70,1	89,7	94,3	79,5	92,8	99,4	89,8

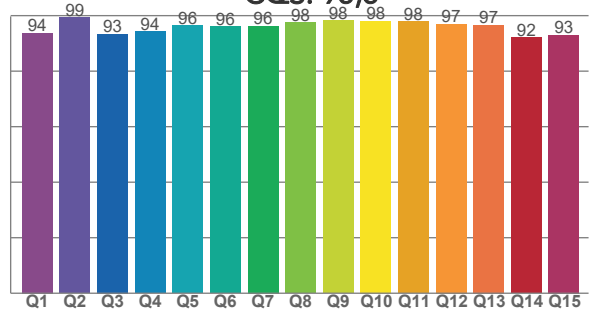
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,8	96,0	95,1	96,9	94,9	97,3	97,6	94,4	94,6	91,7	90,1	97,0	93,6	92,2	85,1	93,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,8	99,3	93,4	94,3	96,4	96,0	96,2	97,6	98,2	98,1	97,8	97,1	96,6	92,2	93,1

CQS: 95,5



COLOR PARAMETERS

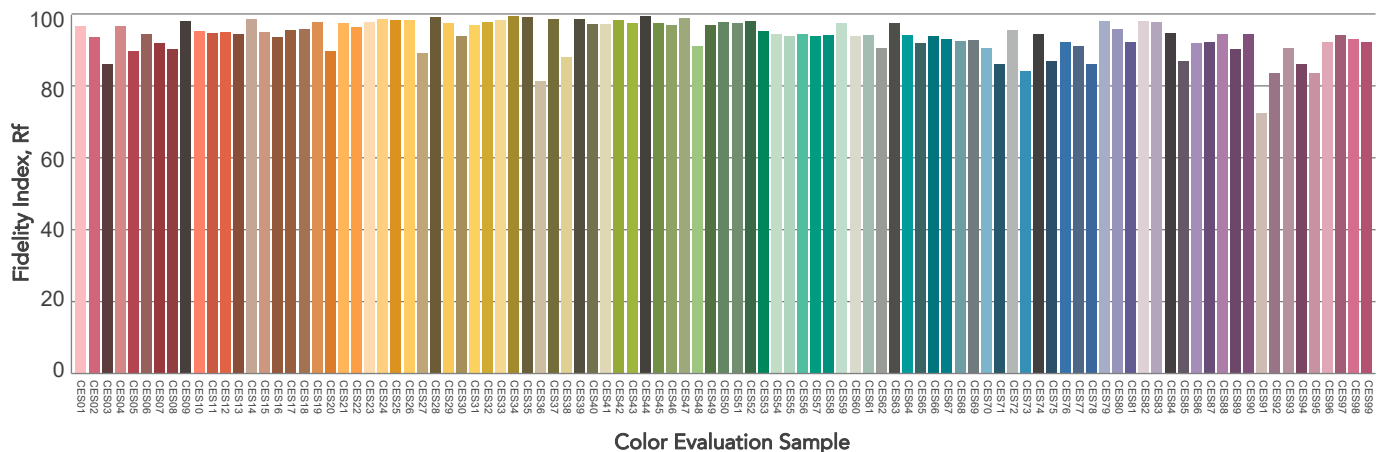
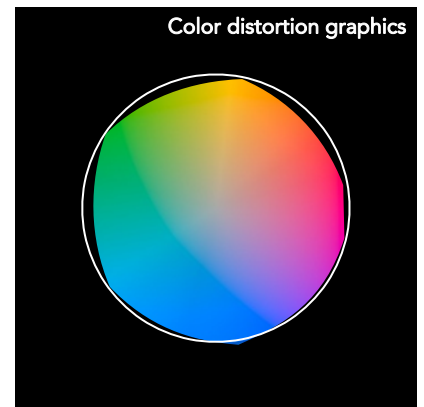
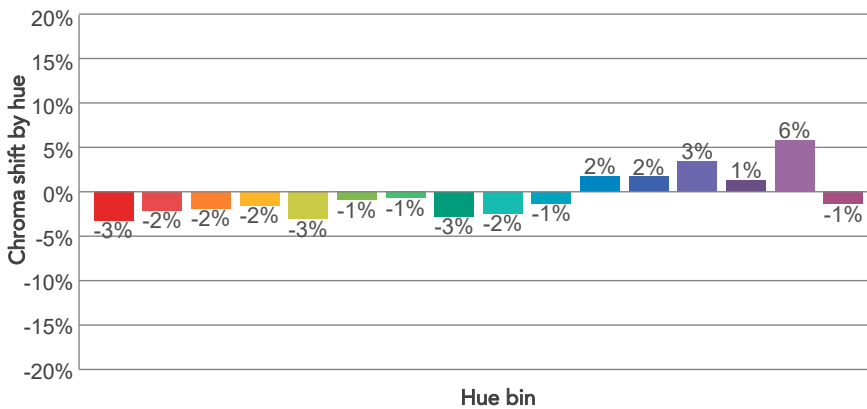
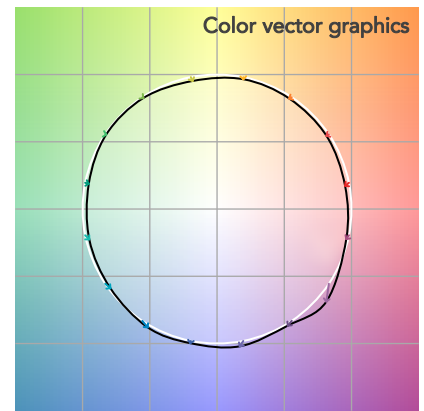
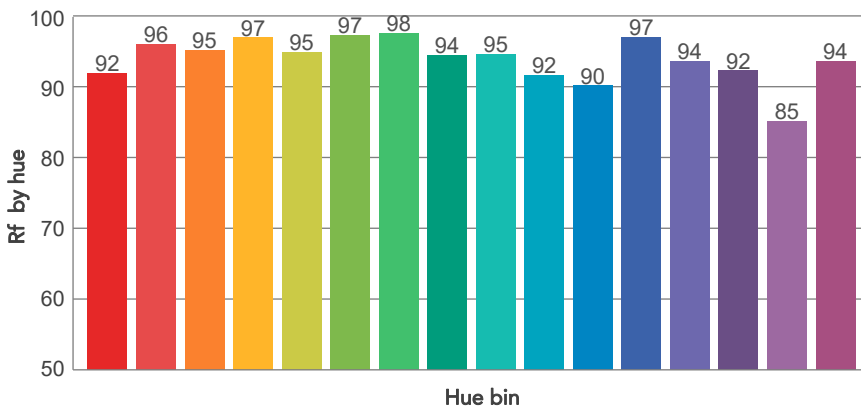
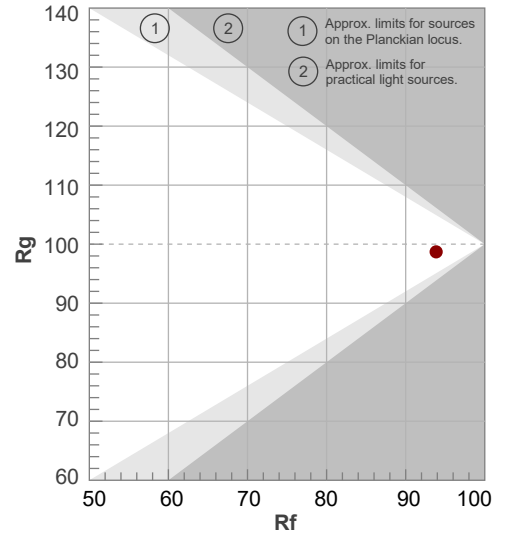
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6501 K	94,2	70,1	93,9	98,7	95,5	99	0,311	0,340	0,0091

TM30 DETAILS

Rf 93,9
Fidelity index Rf

Rg 98,7
Gammut index

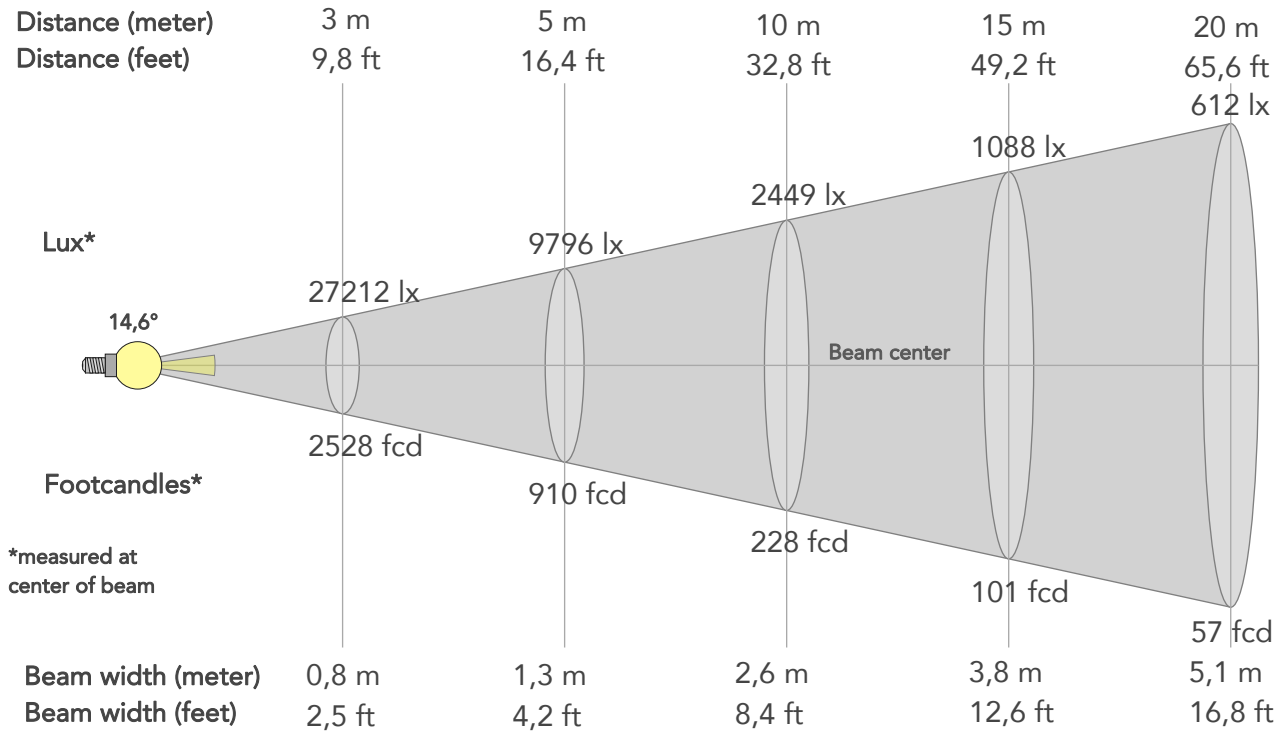
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	92	-3%	-2%
2	96	-2%	0%
3	95	-2%	1%
4	97	-2%	0%
5	95	-3%	-1%
6	97	-1%	0%
7	98	-1%	0%
8	94	-3%	0%
9	95	-2%	4%
10	92	-1%	5%
11	90	2%	6%
12	97	2%	0%
13	94	3%	-3%
14	92	1%	-4%
15	85	6%	-12%
16	94	-1%	-3%



BEAM DETAILS



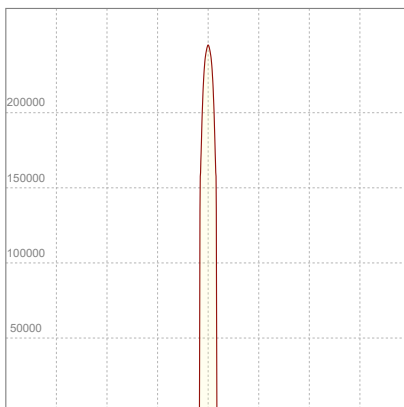
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
14,6°	15,3°	15,4°	99,9%	99,9%



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	244908lx	61227lx	27212lx	15307lx	9796lx	4354lx	2449lx	1088lx	612lx	392lx	272lx	153lx	98lx
Footcand.	22753fcd	5688fcd	2528fcd	1422fcd	910fcd	404fcd	228fcd	101fcd	57fcd	36fcd	25fcd	14fcd	9fcd
Beam wid.	0,3m	0,5m	0,8m	1m	1,3m	1,9m	2,6m	3,8m	5,1m	6,4m	7,7m	10,2m	12,8m
Beam wid.	0,8ft	1,7ft	2,5ft	3,3ft	4,2ft	6,3ft	8,4ft	12,6ft	16,8ft	21ft	25,2ft	33,5ft	41,9ft

LINEAR DISTRIBUTION DIAGRAM

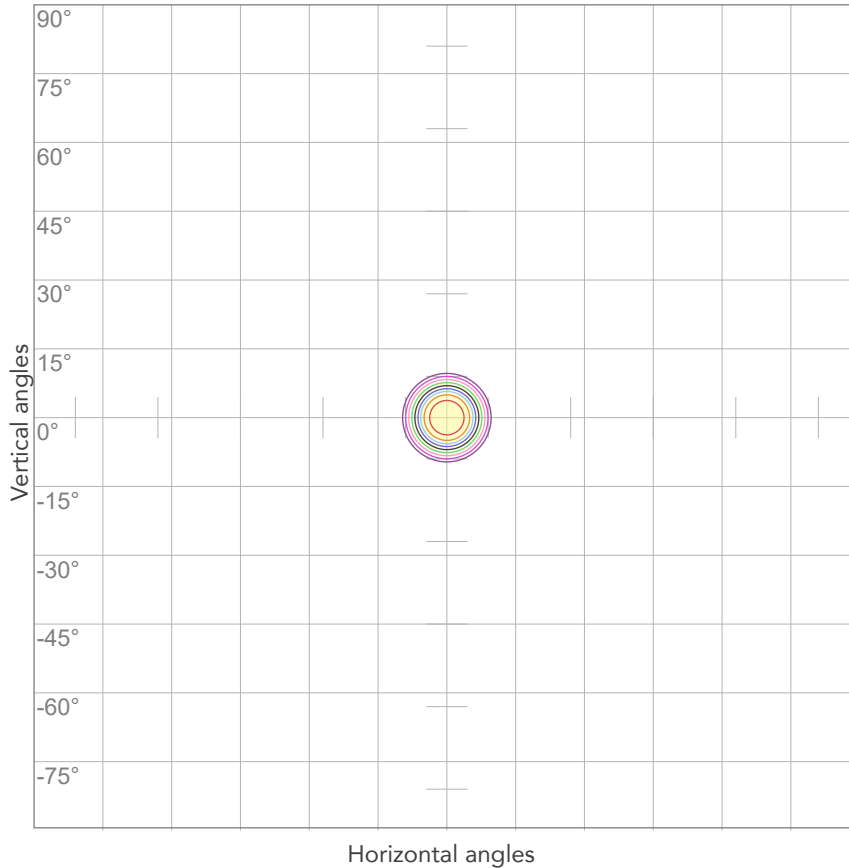


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	1,74A	380,4W	0,97	28lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



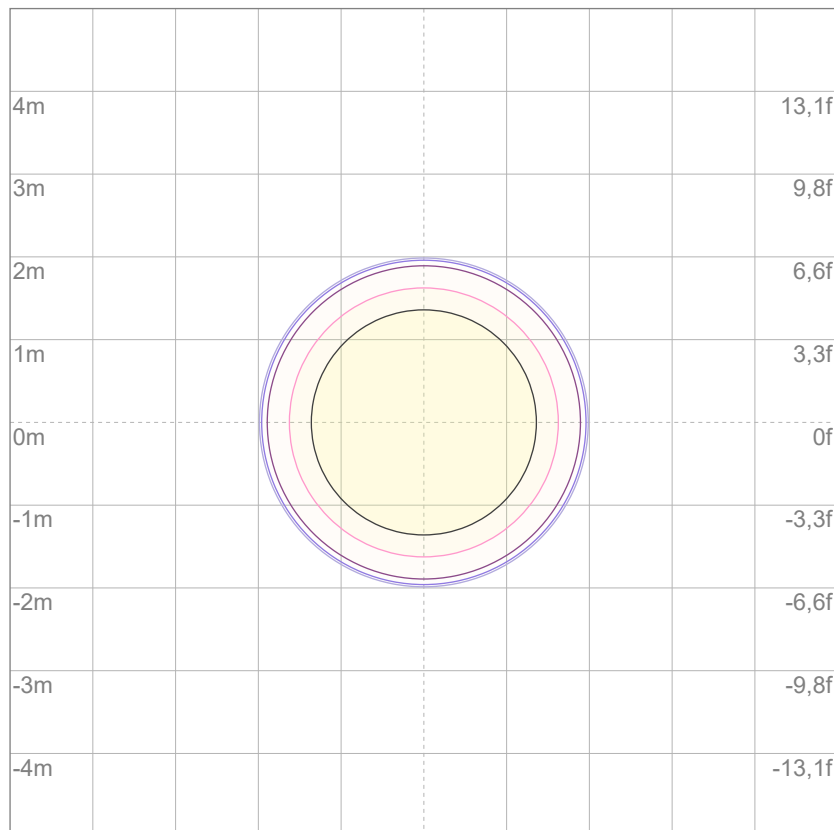
10%	24491 cd
20%	48982 cd
30%	73472 cd
40%	97963 cd
50%	122454 cd
60%	146945 cd
70%	171435 cd
80%	195926 cd

Conditions:

Number of c-planes: 2

Candela at center: 244908 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	73,5 lx
5%	122 lx
10%	245 lx
30%	735 lx
50%	1225 lx

Conditions:

Number of c-planes: 2

Lux at center: 2449 lx

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



Total lumen output:

8857 lm

Peak candela output:

206586 cd

Light quality:

CRI: 97,3

Color temperature:

2783 K

PRODUCT NAME:

ECLFWHPVW

MEASUREMENT CONDITIONS:

Beam angle:

PRL14

Target:

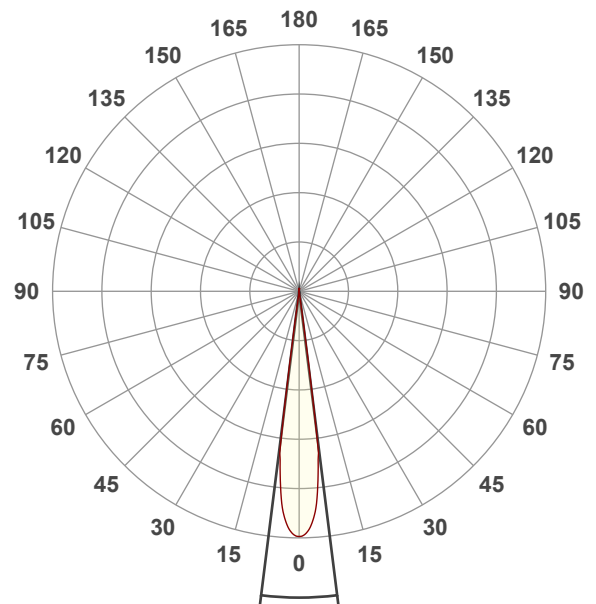
2800K

Operator:

Giuseppe della Peruta

Date and time:

08/01/2026 14:49:39

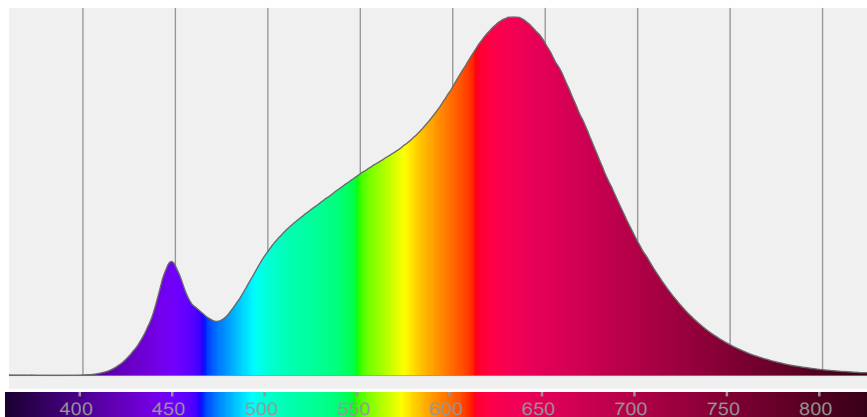


Beam angle 50%: 14,3°

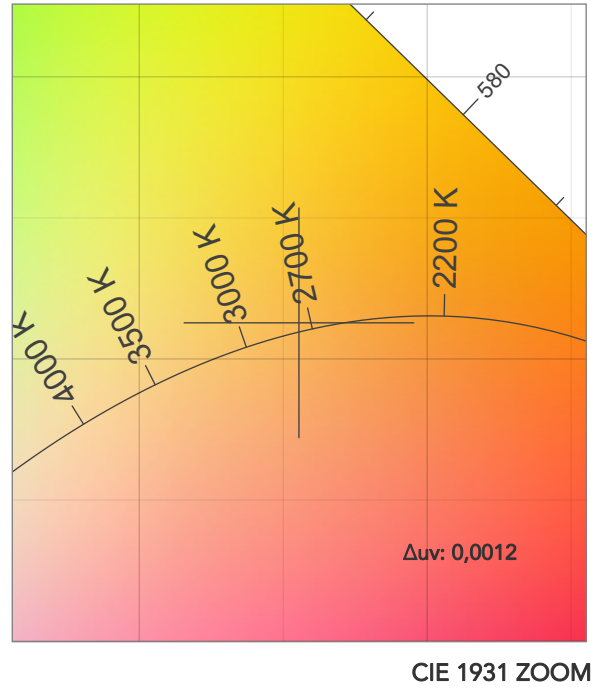
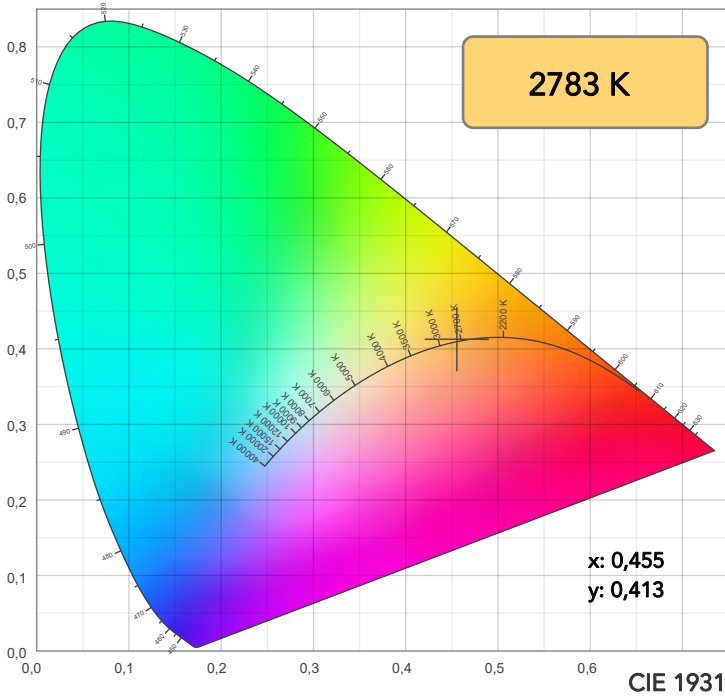
Field angle 10%: 15,6°

Cut off angle 2.5%: 15,8°

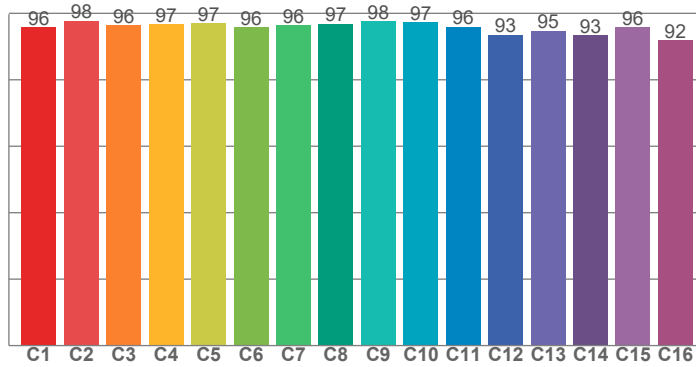
Spectra



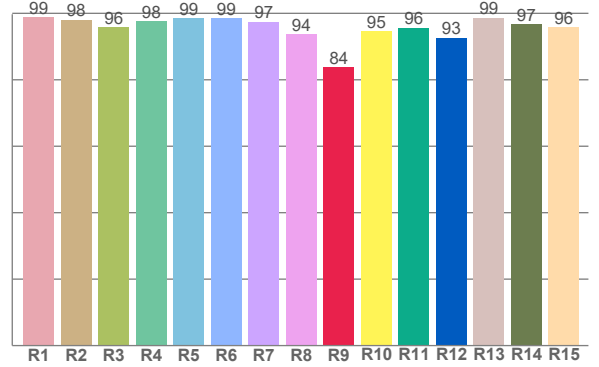
COLOR DETAILS



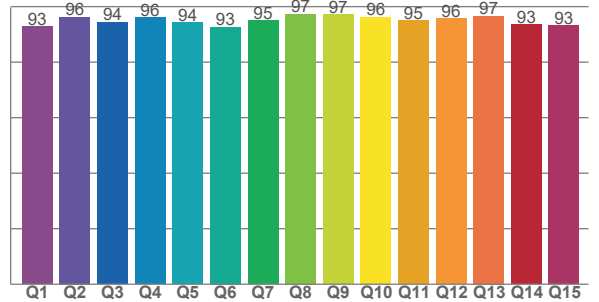
TM30: 95,9



CRI: 97,3 (R1-R8)



CQS: 94,7



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
98,9	98,1	95,8	97,7	98,5	98,5	97,5	93,7	83,7	94,7	95,7	92,7	98,7	96,7	95,9

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
95,9	97,7	96,4	96,7	96,9	95,8	96,4	96,9	97,7	97,2	95,9	93,5	94,7	93,3	95,8	91,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,8	96,3	94,4	96,1	94,3	92,7	95,0	97,4	97,1	96,2	95,1	95,7	96,7	93,5	93,2

COLOR PARAMETERS

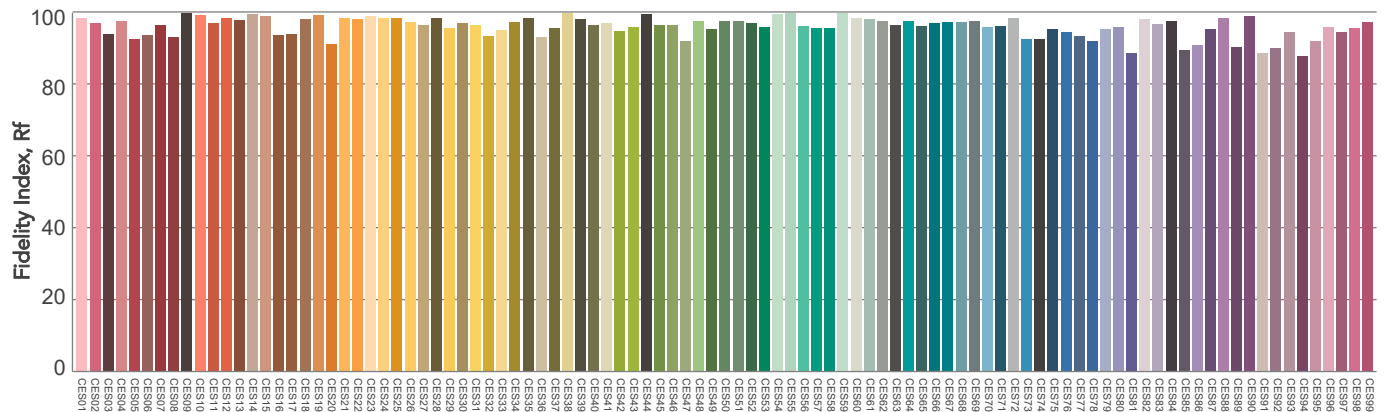
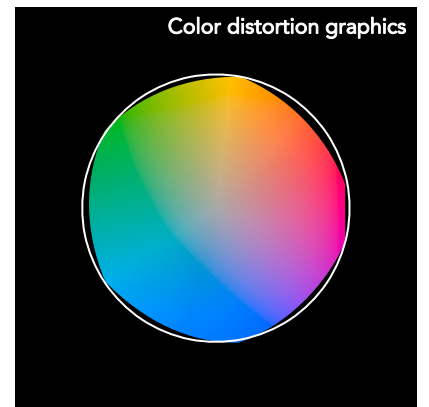
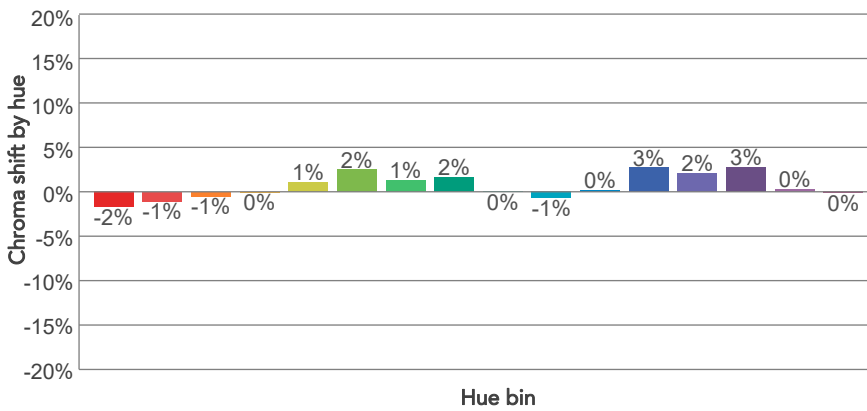
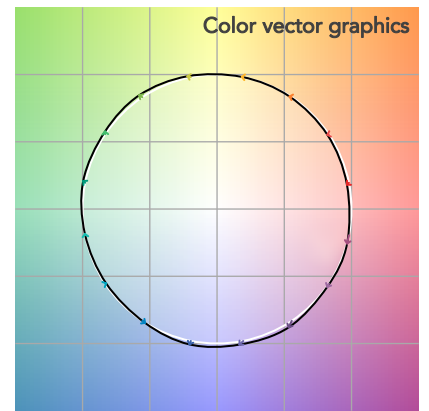
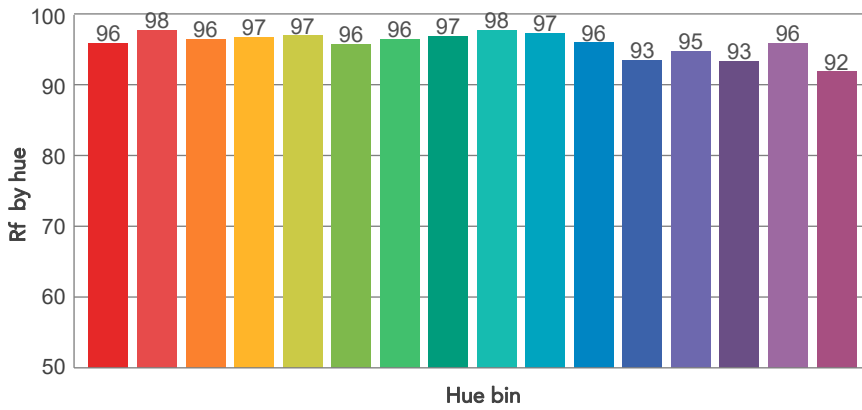
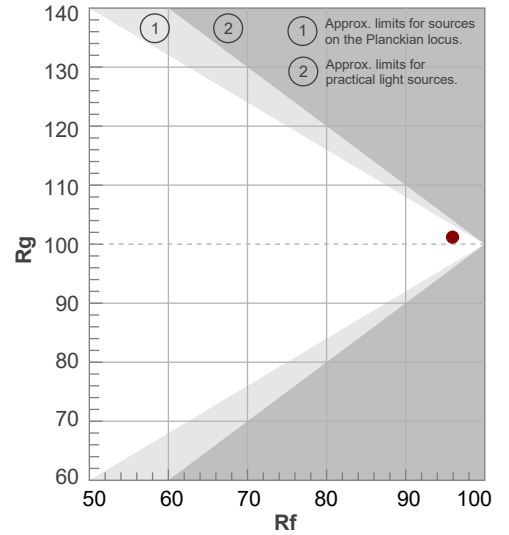
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2783 K	97,3	83,7	95,9	101,2	94,7	97	0,455	0,413	0,0012

TM30 DETAILS

Rf 95,9
Fidelity index Rf

Rg 101,2
Gammut index

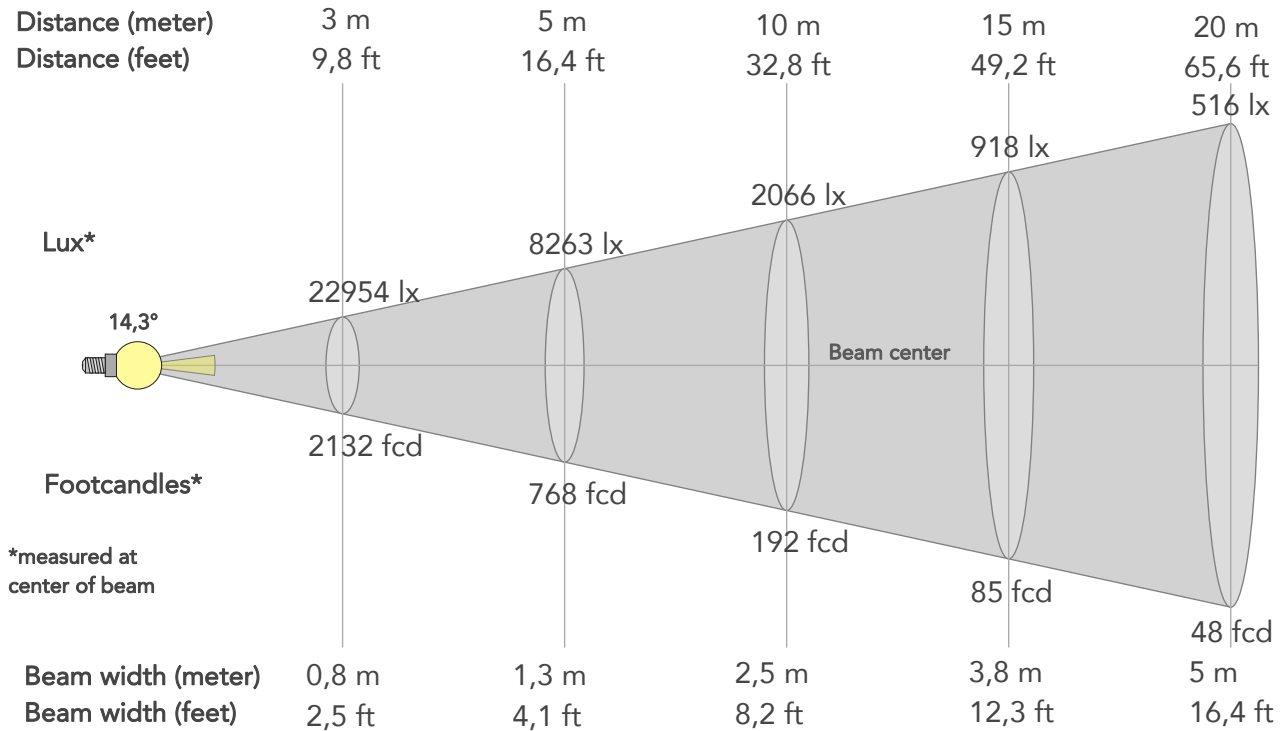
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	96	-2%	-1%
2	98	-1%	0%
3	96	-1%	2%
4	97	0%	1%
5	97	1%	2%
6	96	2%	1%
7	96	1%	-2%
8	97	2%	-1%
9	98	0%	-1%
10	97	-1%	0%
11	96	0%	2%
12	93	3%	0%
13	95	2%	-3%
14	93	3%	-5%
15	96	0%	-3%
16	92	0%	-6%



BEAM DETAILS



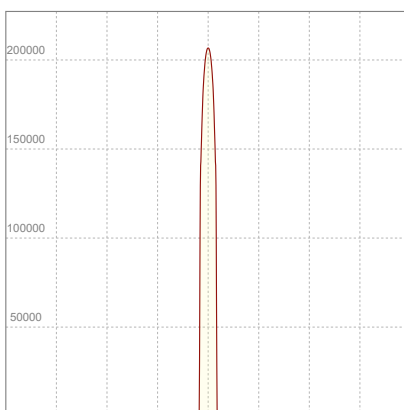
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
14,3°	15,6°	15,8°	100,0%	100,0%



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	206586lx	51646lx	22954lx	12912lx	8263lx	3673lx	2066lx	918lx	516lx	331lx	230lx	129lx	83lx
Footcand.	19192fcd	4798fcd	2132fcd	1200fcd	768fcd	341fcd	192fcd	85fcd	48fcd	31fcd	21fcd	12fcd	8fcd
Beam wid.	0,3m	0,5m	0,8m	1m	1,3m	1,9m	2,5m	3,8m	5m	6,3m	7,5m	10m	12,5m
Beam wid.	0,8ft	1,7ft	2,5ft	3,3ft	4,1ft	6,2ft	8,2ft	12,3ft	16,4ft	20,5ft	24,6ft	32,8ft	41ft

LINEAR DISTRIBUTION DIAGRAM

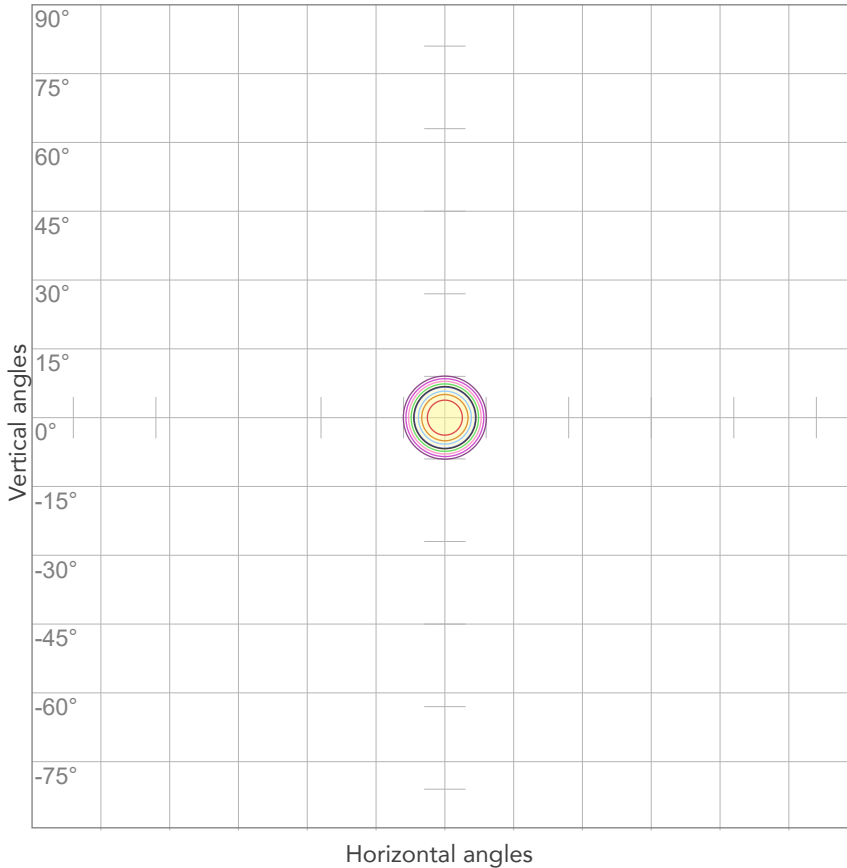


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	1,88A	413W	0,97	21lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



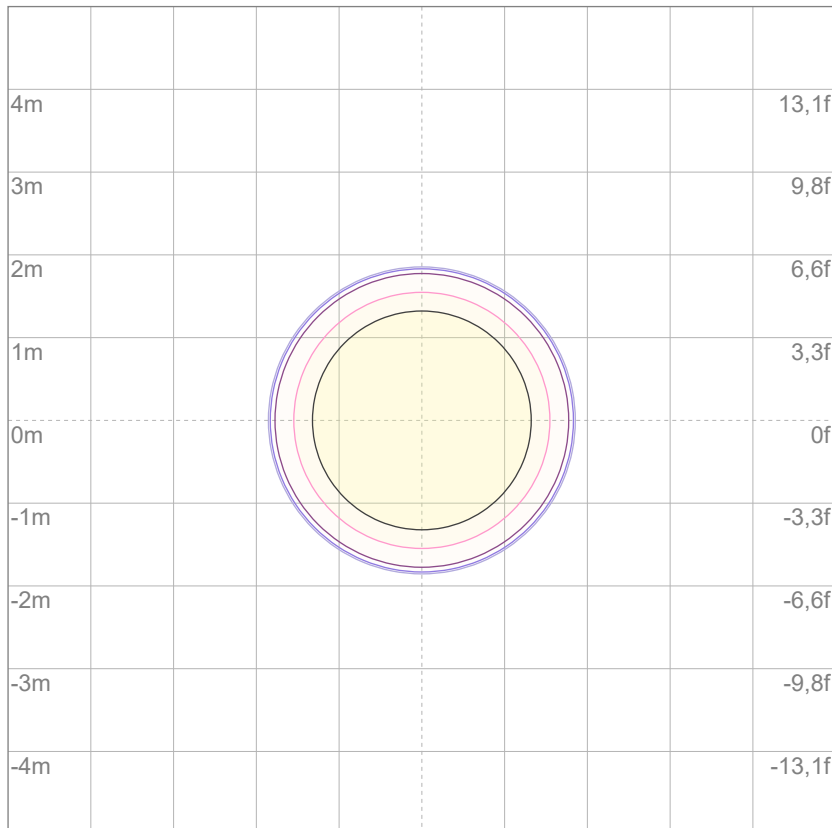
10%	20659 cd
20%	41317 cd
30%	61976 cd
40%	82634 cd
50%	103293 cd
60%	123951 cd
70%	144610 cd
80%	165269 cd

Conditions:

Number of c-planes: 2

Candela at center: 206586 cd

ISO LUX DIAGRAM



3%	62,0 lx
5%	103 lx
10%	207 lx
30%	620 lx
50%	1033 lx

Conditions:

Number of c-planes: 2

Lux at center: 2066 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

9766 lm

Peak candela output:

228799 cd

Light quality:

CRI: 97,8

Color temperature:

3187 K

PRODUCT NAME:

ECLFWHPVW

MEASURAMENT CONDITIONS:

Beam angle:

PRL14

Target:

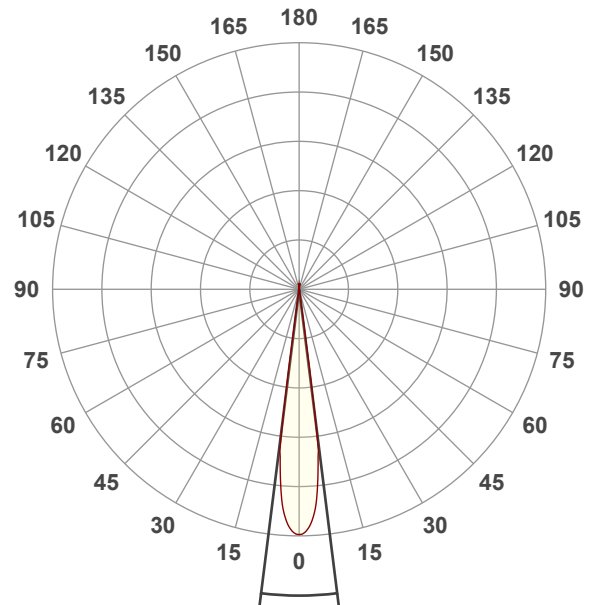
3200K

Operator:

Giuseppe della Peruta

Date and time:

08/01/2026 14:57:58

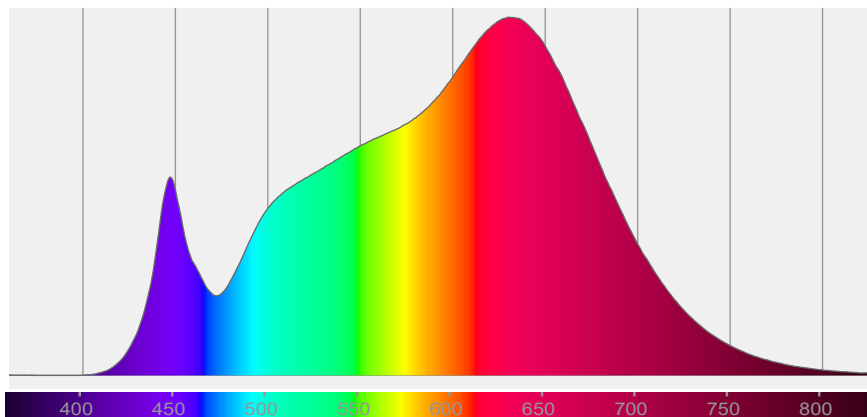


Beam angle 50%: 14,3°

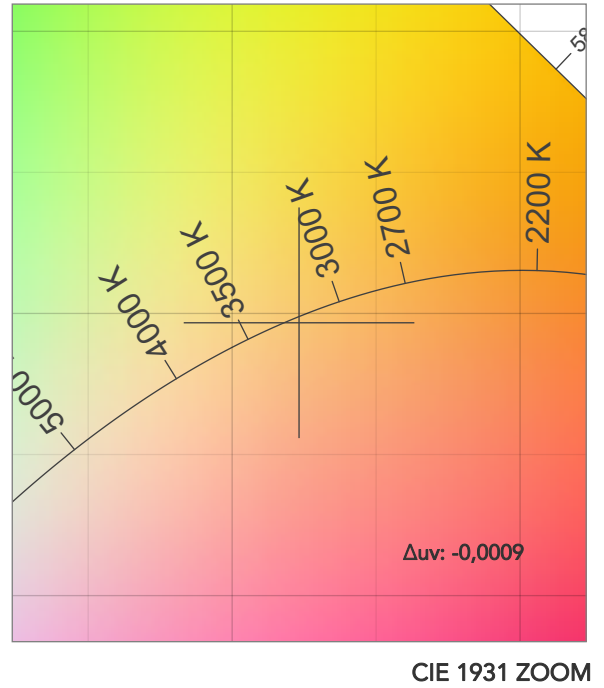
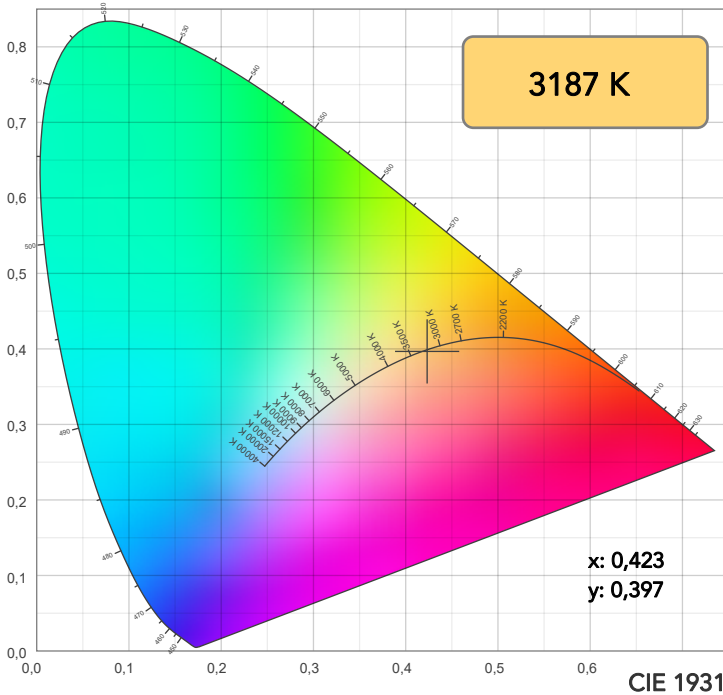
Field angle 10%: 15,5°

Cut off angle 2.5%: 15,8°

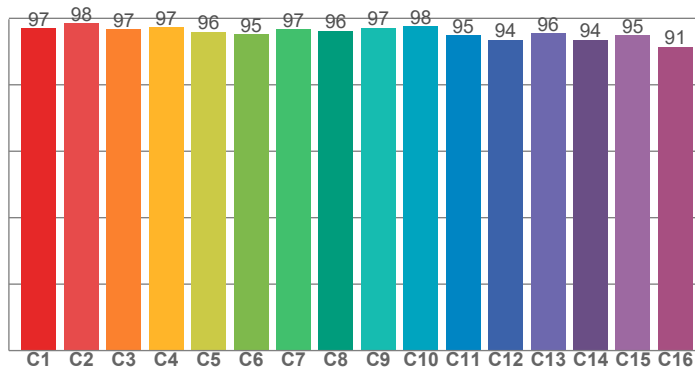
Spectra



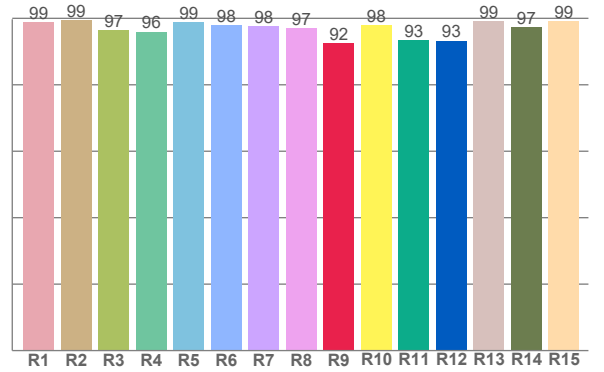
COLOR DETAILS



TM30: 96,0



CRI: 97,8 (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
98,9	99,4	96,5	96,0	98,7	98,0	97,7	97,1	92,5	98,0	93,5	93,3	99,2	97,3	99,2

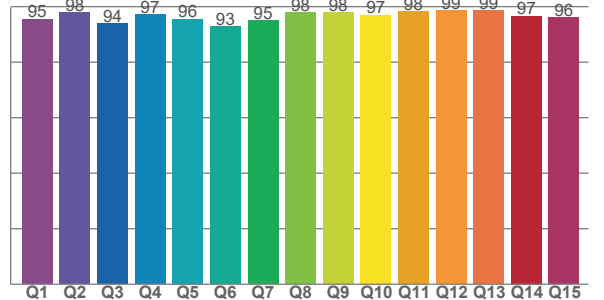
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
97,0	98,4	96,7	97,3	95,9	95,1	96,7	96,2	97,2	97,6	95,0	93,5	95,6	93,6	94,8	91,4

CQS Q values

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

CQS: 96,0



COLOR PARAMETERS

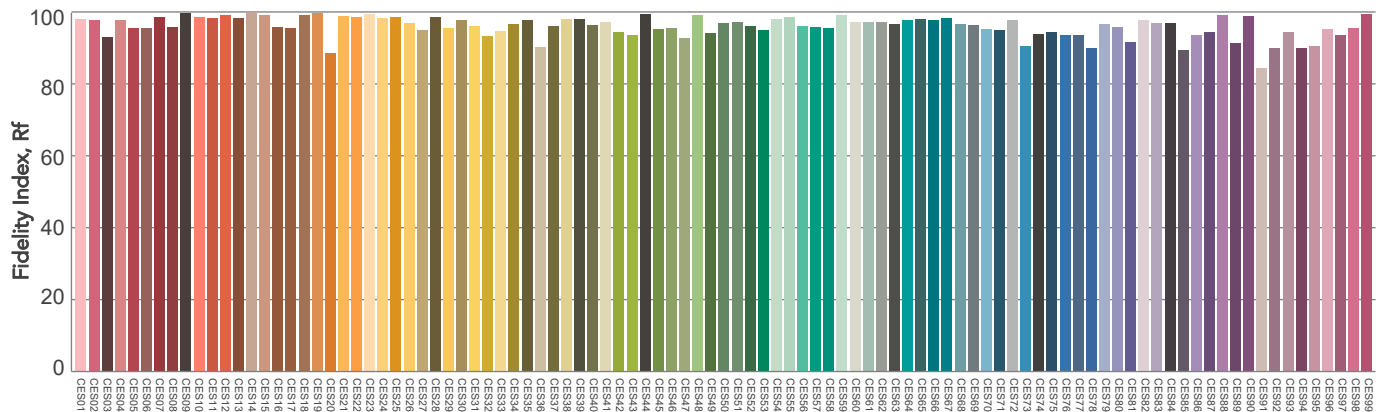
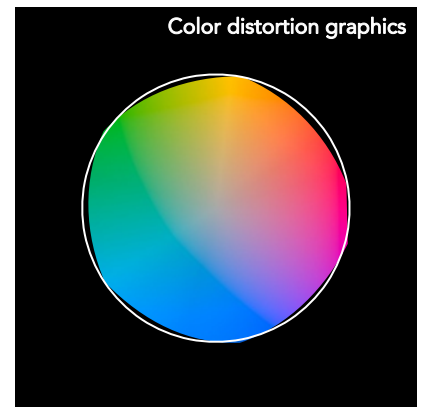
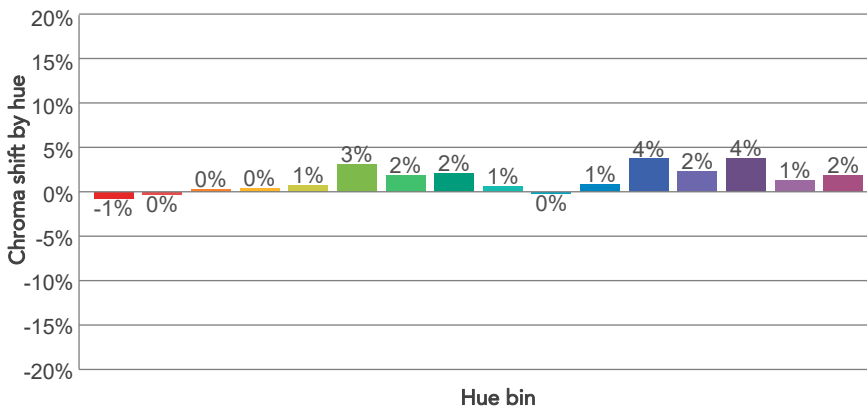
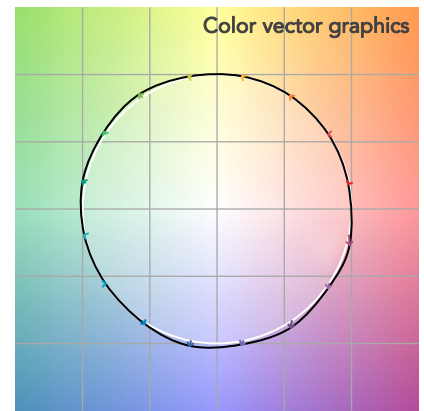
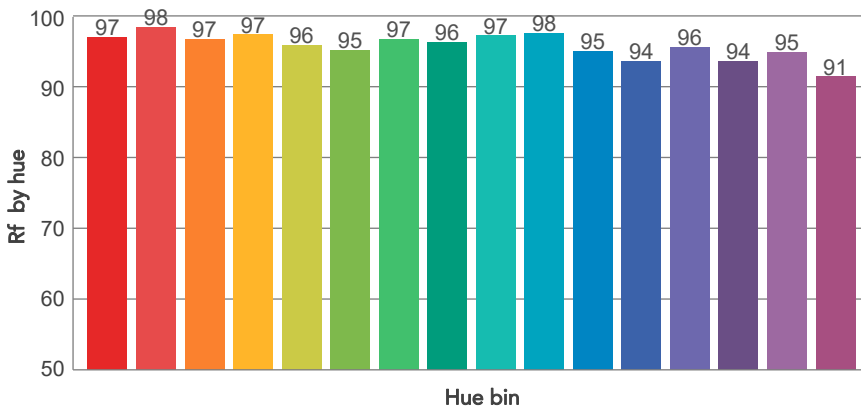
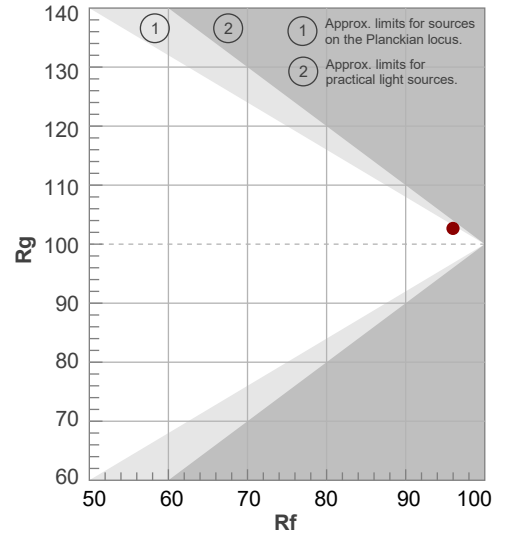
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3187 K	97,8	92,5	96,0	102,7	96,0	97	0,423	0,397	-0,0009

TM30 DETAILS

Rf 96,0
Fidelity index Rf

Rg 102,7
Gammut index

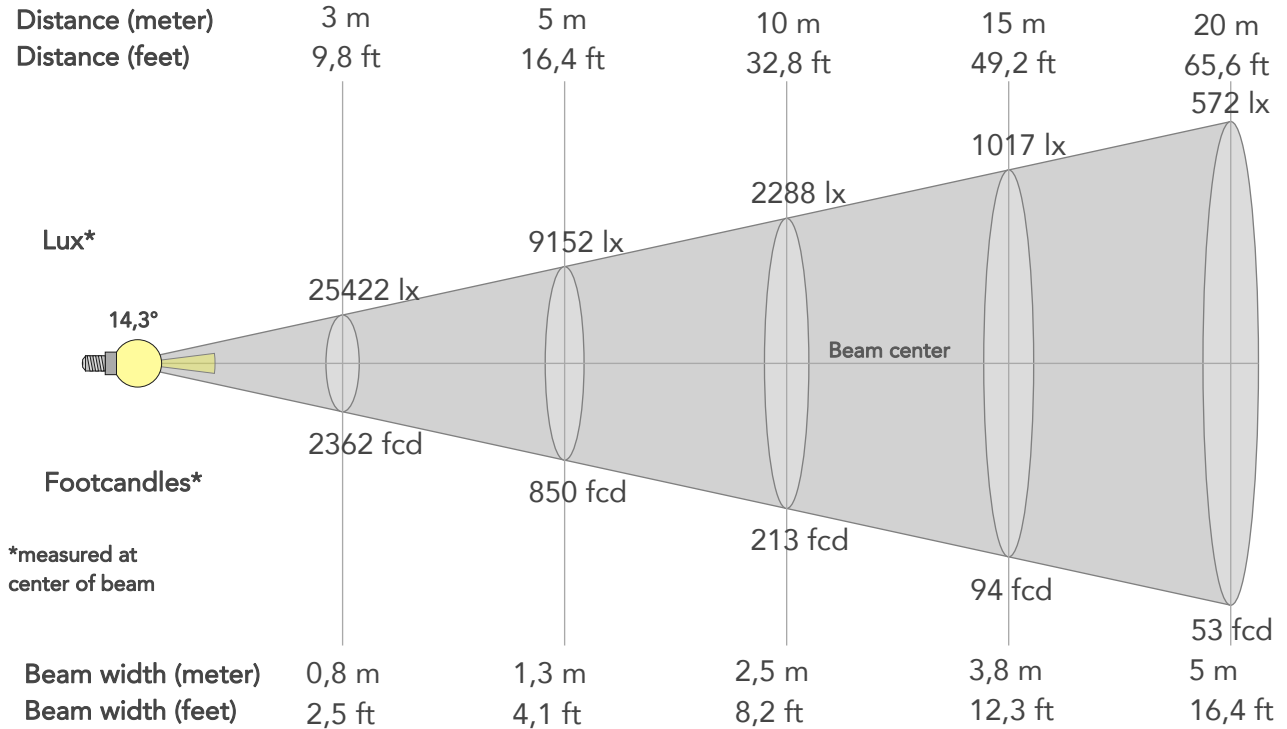
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	97	-1%	-1%
2	98	0%	0%
3	97	0%	2%
4	97	0%	1%
5	96	1%	2%
6	95	3%	1%
7	97	2%	-1%
8	96	2%	-1%
9	97	1%	0%
10	98	0%	0%
11	95	1%	3%
12	94	4%	0%
13	96	2%	-2%
14	94	4%	-4%
15	95	1%	-3%
16	91	2%	-7%



BEAM DETAILS



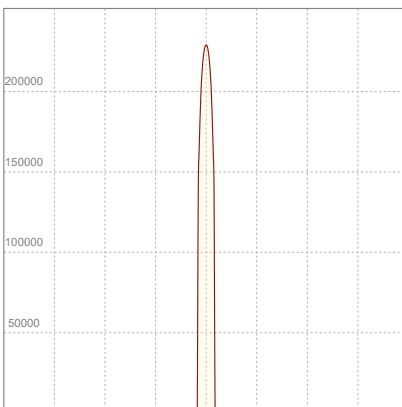
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
14,3°	15,5°	15,8°	100,0%	100,0%



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	228799lx	57200lx	25422lx	14300lx	9152lx	4068lx	2288lx	1017lx	572lx	366lx	254lx	143lx	92lx
Footcand.	21256fcd	5314fcd	2362fcd	1329fcd	850fcd	378fcd	213fcd	94fcd	53fcd	34fcd	24fcd	13fcd	9fcd
Beam wid.	0,3m	0,5m	0,8m	1m	1,3m	1,9m	2,5m	3,8m	5m	6,3m	7,5m	10m	12,5m
Beam wid.	0,8ft	1,7ft	2,5ft	3,3ft	4,1ft	6,2ft	8,2ft	12,3ft	16,4ft	20,5ft	24,6ft	32,8ft	41,1ft

LINEAR DISTRIBUTION DIAGRAM

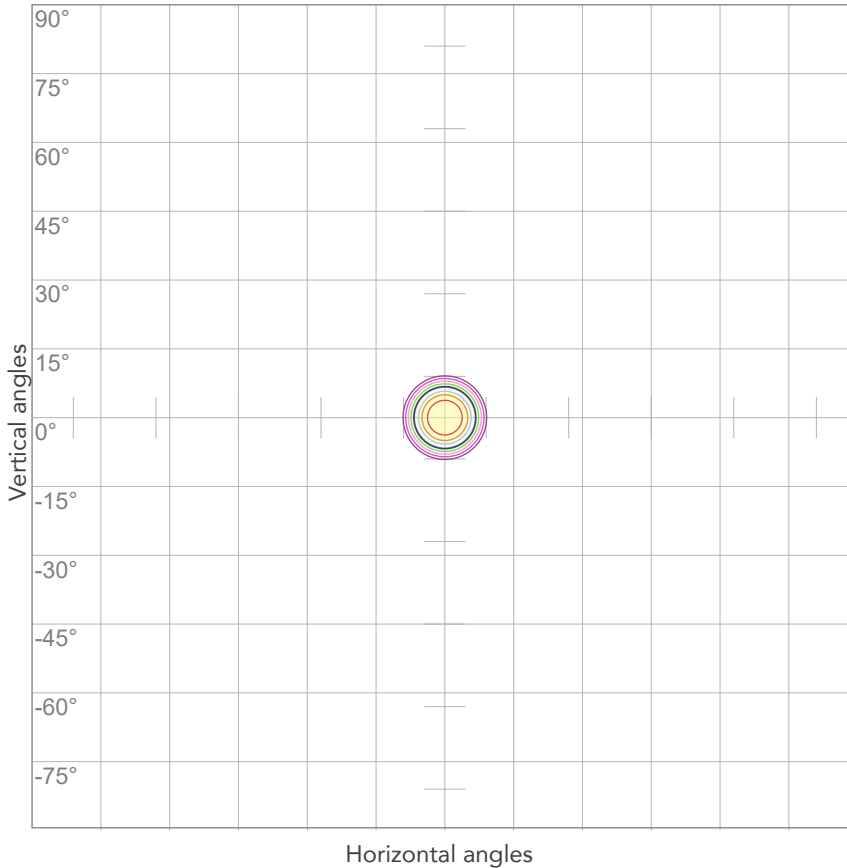


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
225V	2,00A	437,1W	0,97	22lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



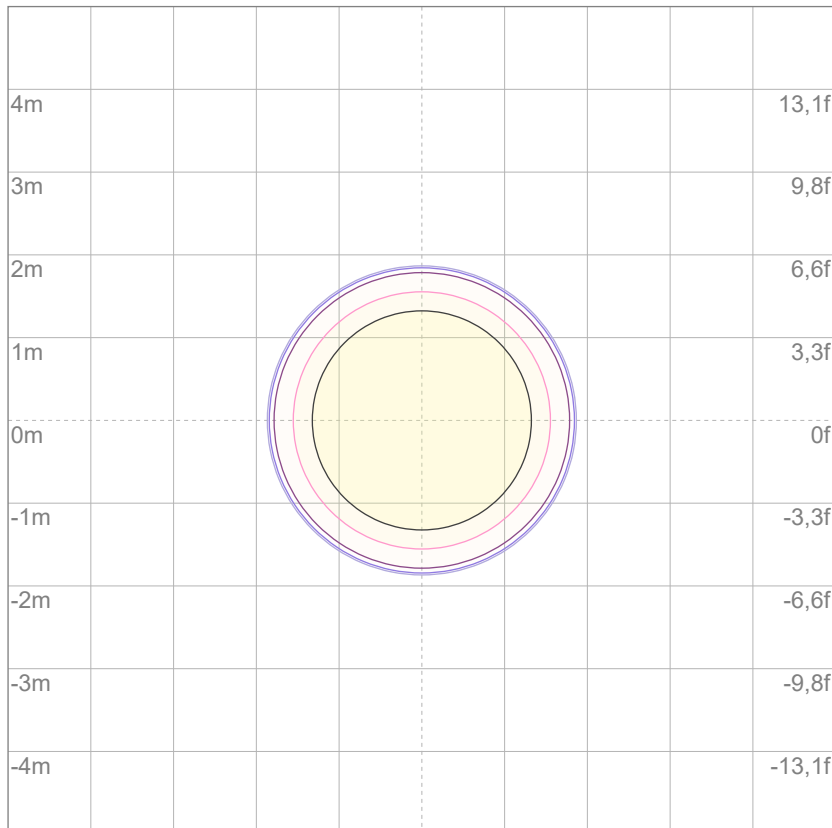
10%	22880 cd
20%	45760 cd
30%	68640 cd
40%	91519 cd
50%	114399 cd
60%	137279 cd
70%	160159 cd
80%	183039 cd

Conditions:

Number of c-planes: 2

Candela at center: 228799 cd

ISO LUX DIAGRAM



3%	68,6 lx
5%	114 lx
10%	229 lx
30%	686 lx
50%	1144 lx

Conditions:

Number of c-planes: 2

Lux at center: 2288 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

10797 lm

Peak candela output:

251617 cd

Light quality:

CRI: 98,0

Color temperature:

3969 K

PRODUCT NAME:

ECLFWHPVW

MEASURAMENT CONDITIONS:

Beam angle:

PRL14

Target:

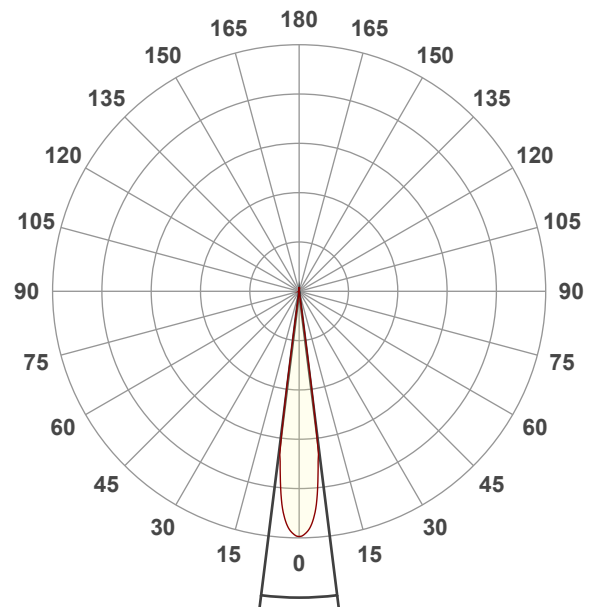
4000K

Operator:

Giuseppe della Peruta

Date and time:

08/01/2026 15:30:54

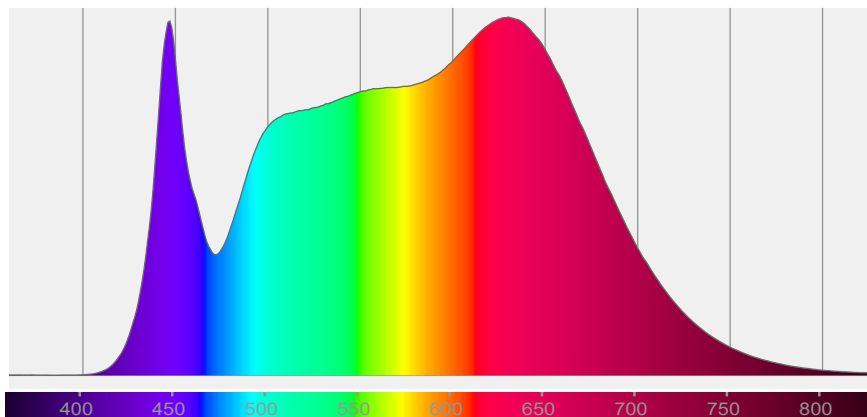


Beam angle 50%: 14,3°

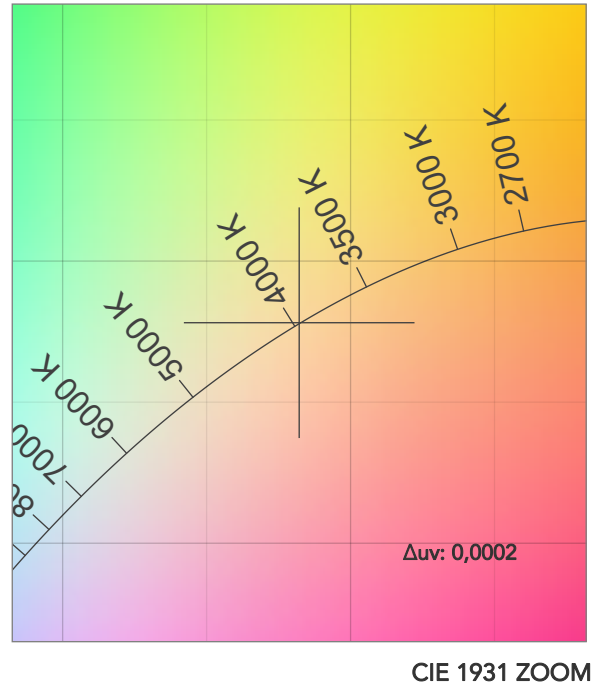
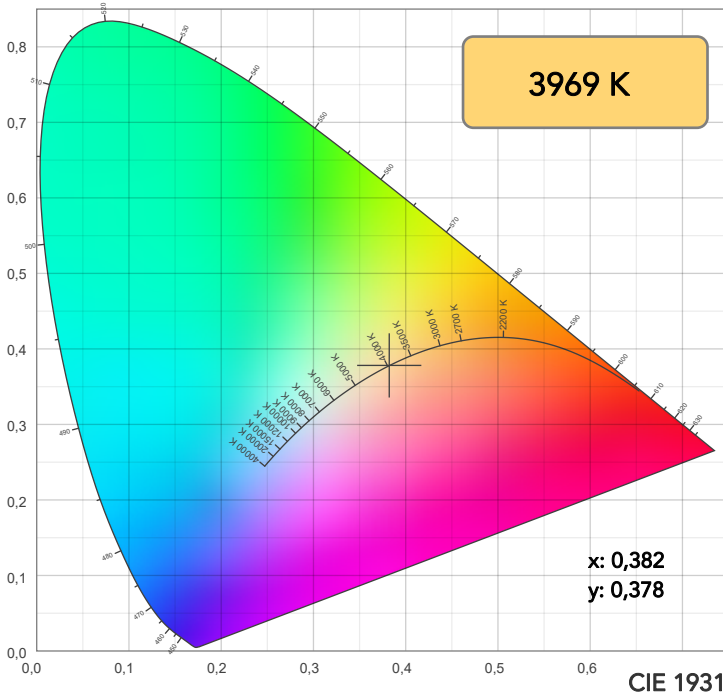
Field angle 10%: 15,5°

Cut off angle 2.5%: 15,7°

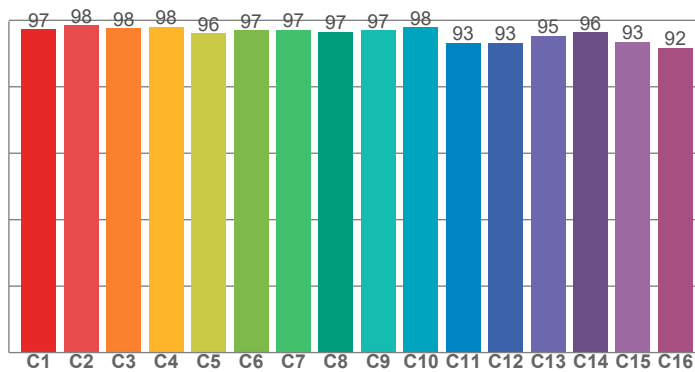
Spectra



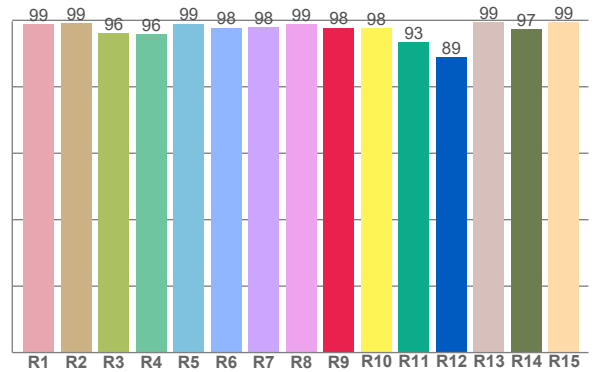
COLOR DETAILS



TM30: 96,2



CRI: 98,0 (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
98,9	99,1	96,1	95,9	99,0	97,8	98,0	98,8	97,8	97,7	93,5	88,8	99,3	97,4	99,4

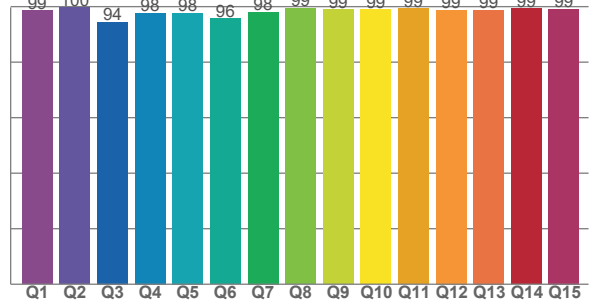
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
97,3	98,4	97,6	98,1	96,2	97,0	97,1	96,6	96,9	97,9	93,2	93,2	95,4	96,5	93,5	91,8

CQS Q values

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

CQS: 97,8



COLOR PARAMETERS

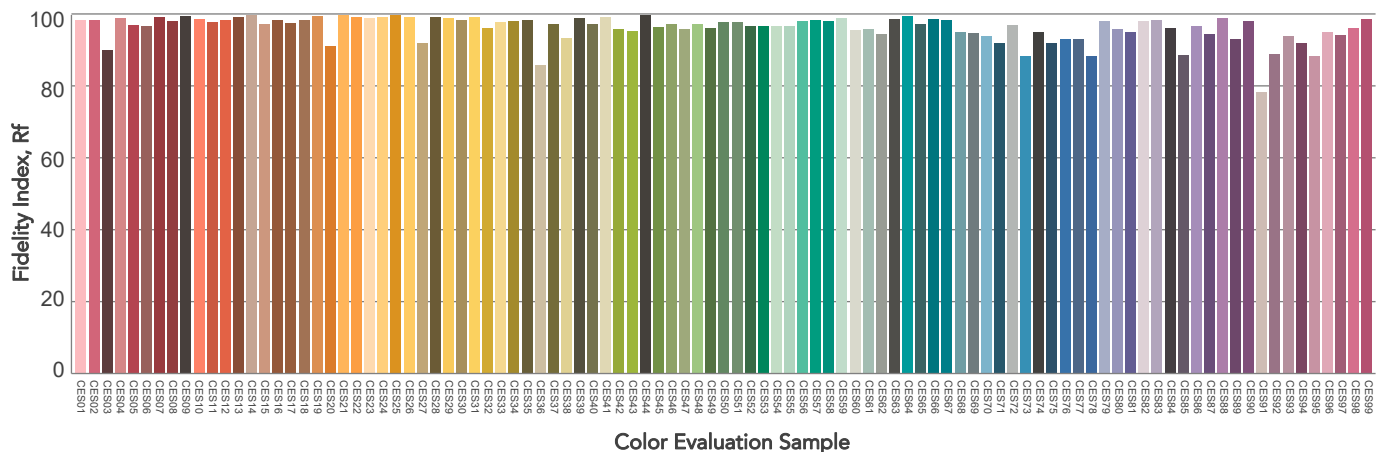
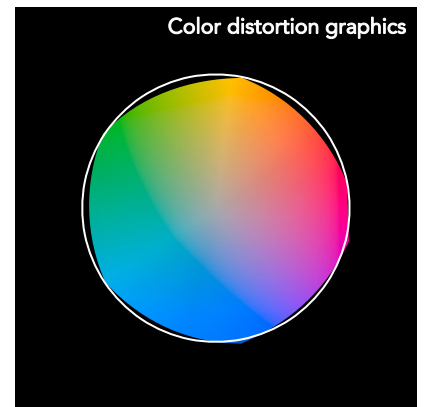
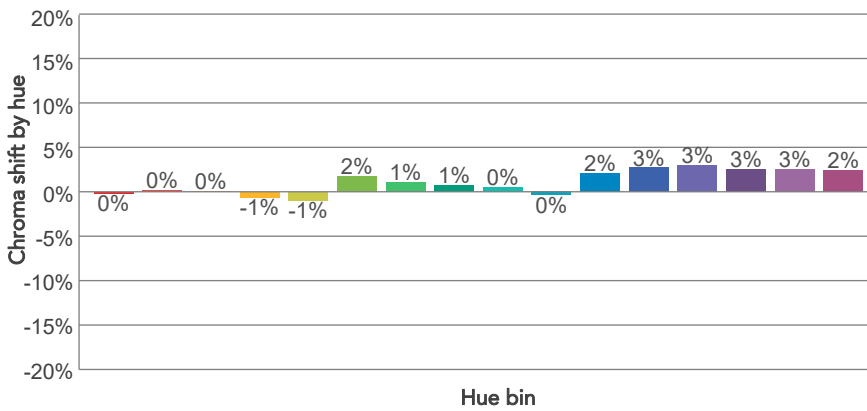
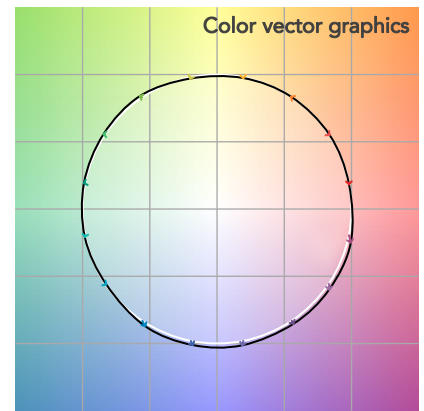
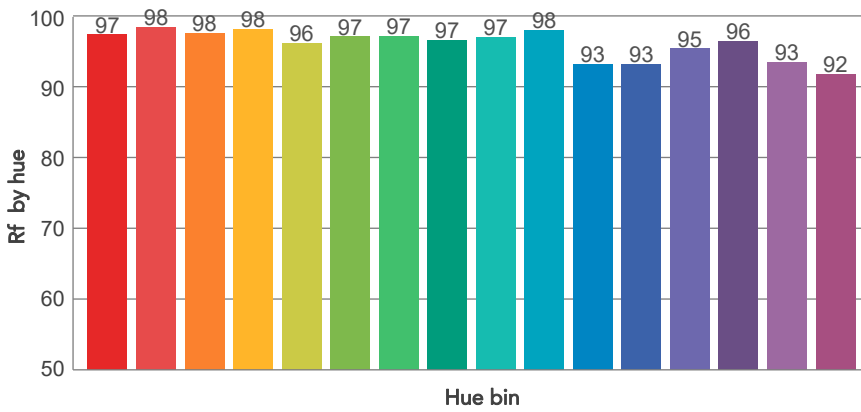
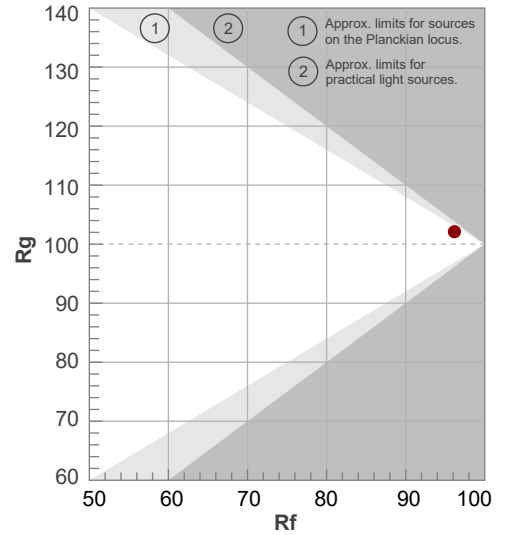
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3969 K	98,0	97,8	96,2	102,1	97,8	98	0,382	0,378	0,0002

TM30 DETAILS

Rf 96,2
Fidelity index Rf

Rg 102,1
Gammut index

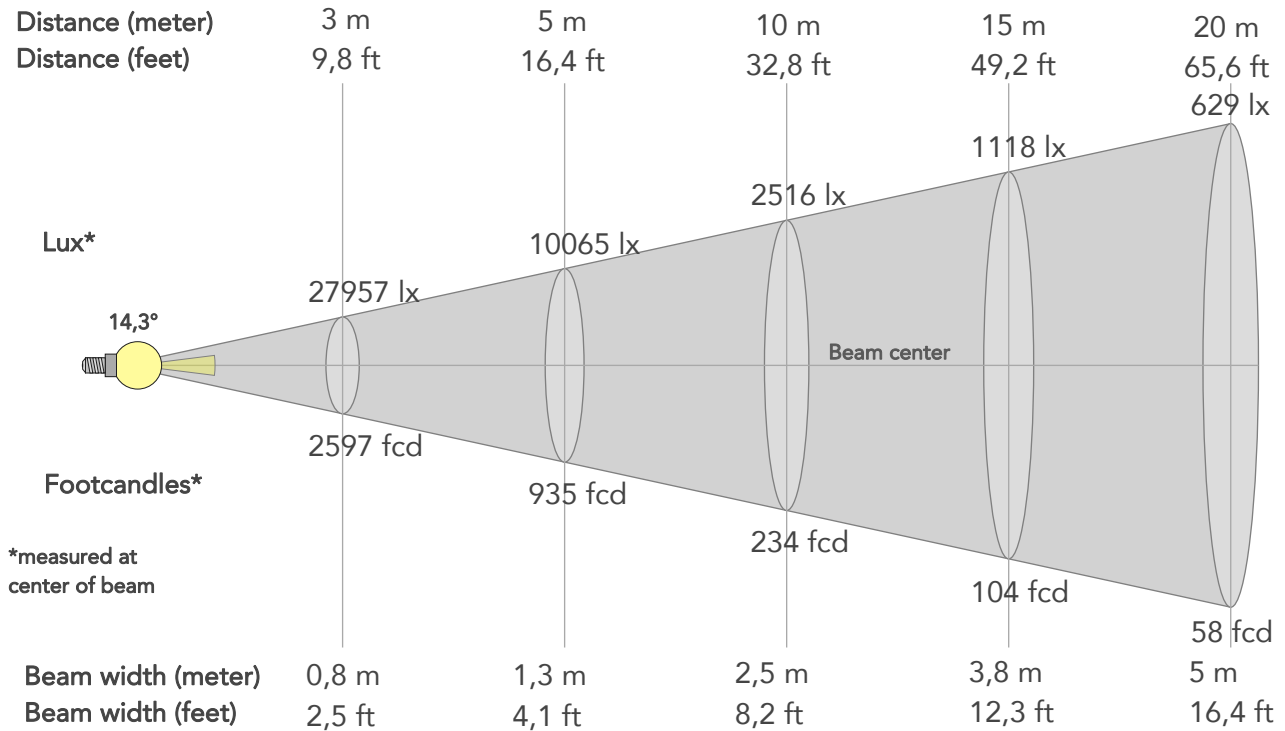
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	97	0%	-1%
2	98	0%	-1%
3	98	0%	1%
4	98	-1%	0%
5	96	-1%	1%
6	97	2%	1%
7	97	1%	1%
8	97	1%	0%
9	97	0%	1%
10	98	0%	1%
11	93	2%	4%
12	93	3%	2%
13	95	3%	-1%
14	96	3%	0%
15	93	3%	-3%
16	92	2%	-5%



BEAM DETAILS



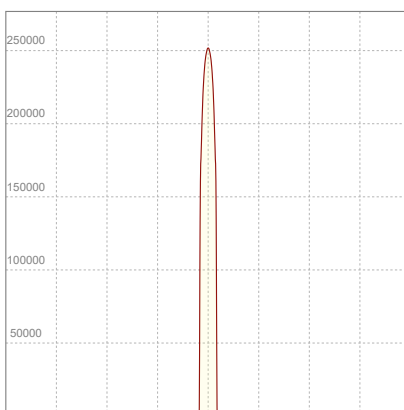
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
14,3°	15,5°	15,7°	100,0%	100,0%



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	251617lx	62904lx	27957lx	15726lx	10065lx	4473lx	2516lx	1118lx	629lx	403lx	280lx	157lx	101lx
Footcand.	23376fcd	5844fcd	2597fcd	1461fcd	935fcd	416fcd	234fcd	104fcd	58fcd	37fcd	26fcd	15fcd	9fcd
Beam wid.	0,3m	0,5m	0,8m	1m	1,3m	1,9m	2,5m	3,8m	5m	6,3m	7,5m	10m	12,5m
Beam wid.	0,8ft	1,7ft	2,5ft	3,3ft	4,1ft	6,2ft	8,2ft	12,3ft	16,4ft	20,5ft	24,6ft	32,8ft	41ft

LINEAR DISTRIBUTION DIAGRAM

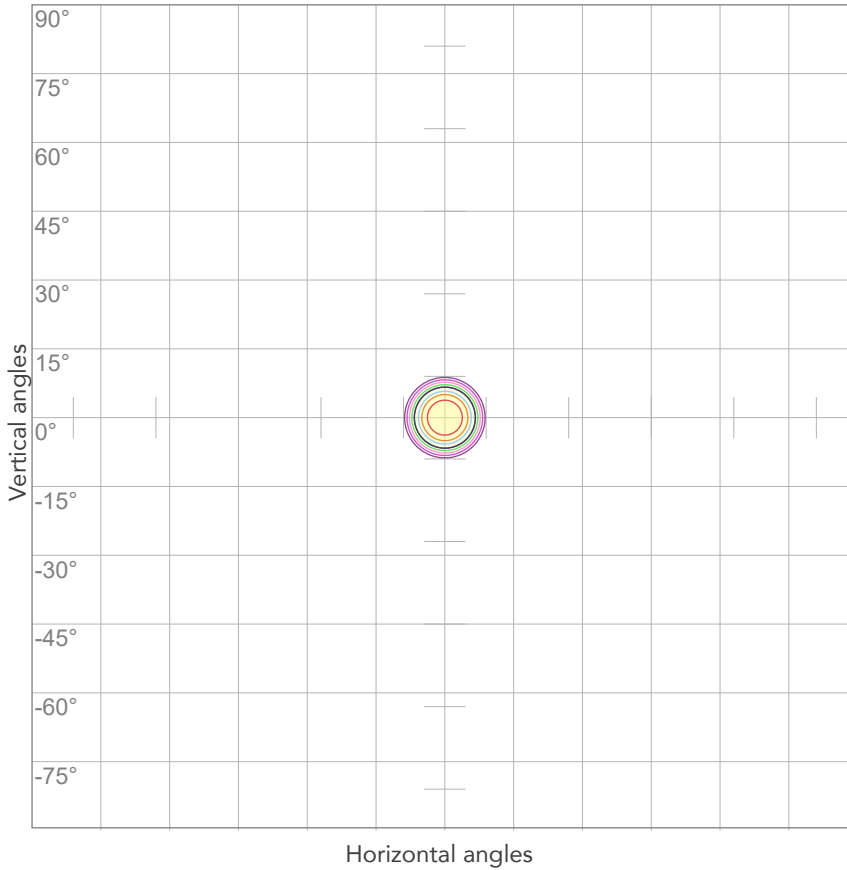


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	2,02A	444,6W	0,97	24lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



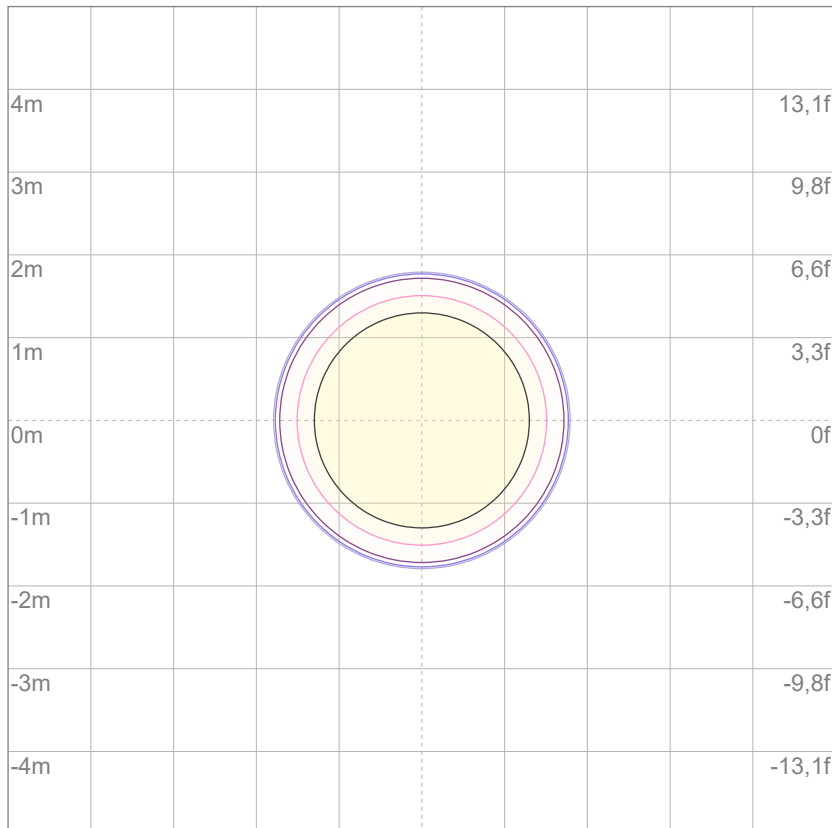
10%	25162 cd
20%	50323 cd
30%	75485 cd
40%	100647 cd
50%	125809 cd
60%	150970 cd
70%	176132 cd
80%	201294 cd

Conditions:

Number of c-planes: 2

Candela at center: 251617 cd

ISO LUX DIAGRAM



3%	75,5 lx
5%	126 lx
10%	252 lx
30%	755 lx
50%	1258 lx

Conditions:

Number of c-planes: 2

Lux at center: 2516 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

11482 lm

Peak candela output:

268025 cd

Light quality:

CRI: 96,8

Color temperature:

5584 K

PRODUCT NAME:

ECLFWHPVW

MEASUREMENT CONDITIONS:

Beam angle:

PRL14

Target:

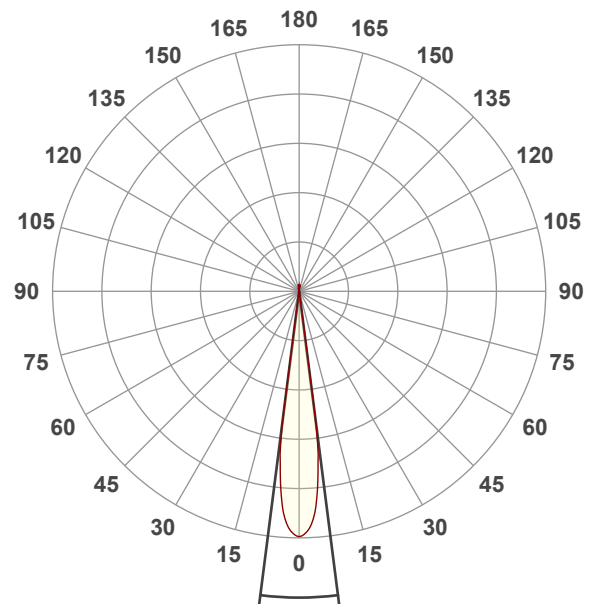
5600K

Operator:

Giuseppe della Peruta

Date and time:

08/01/2026 15:37:52

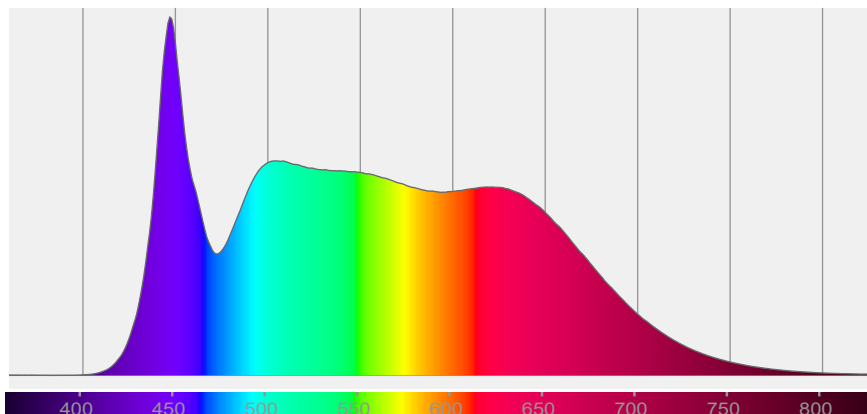


Beam angle 50%: 14,6°

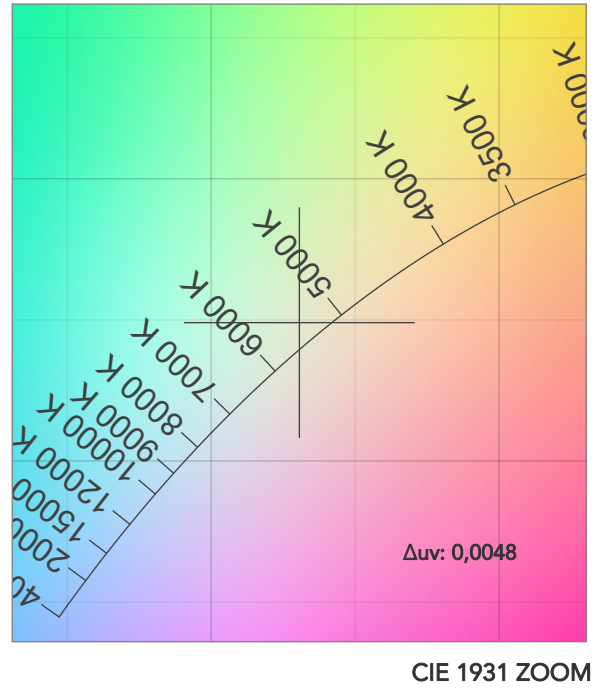
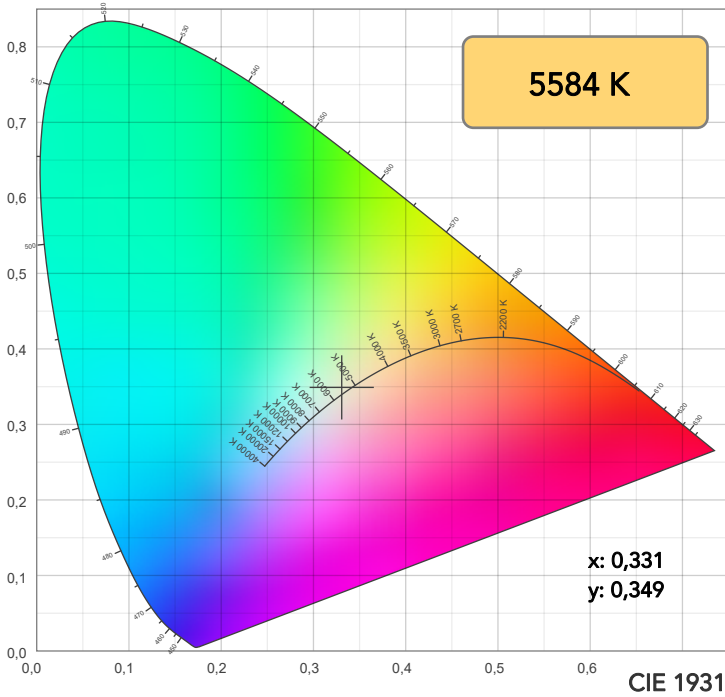
Field angle 10%: 15,4°

Cut off angle 2.5%: 15,5°

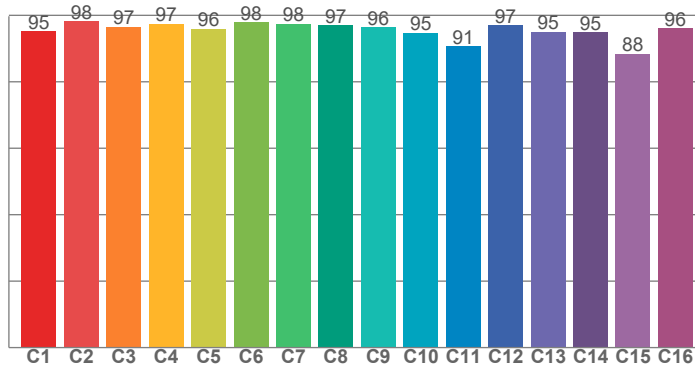
Spectra



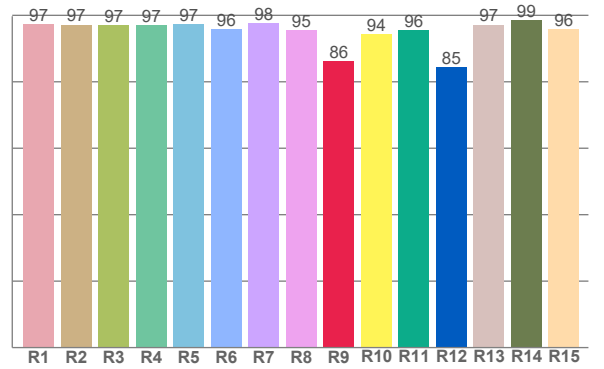
COLOR DETAILS



TM30: 95,5



CRI: 96,8 (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
97,3	97,2	97,1	97,1	97,3	95,8	97,6	95,5	86,2	94,3	95,6	84,5	97,2	98,6	95,7

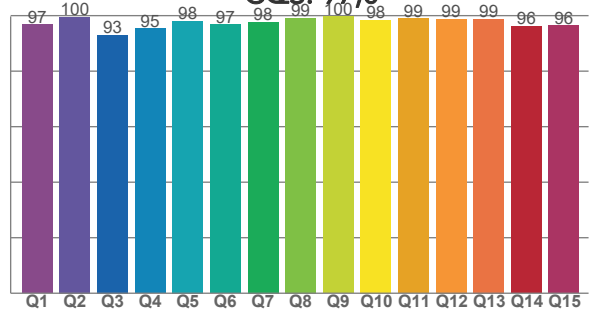
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,2	98,3	96,6	97,5	96,0	98,0	97,5	97,1	96,4	94,8	90,8	96,9	95,0	94,9	88,4	96,2

CQS Q values

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

CQS: 97,0



COLOR PARAMETERS

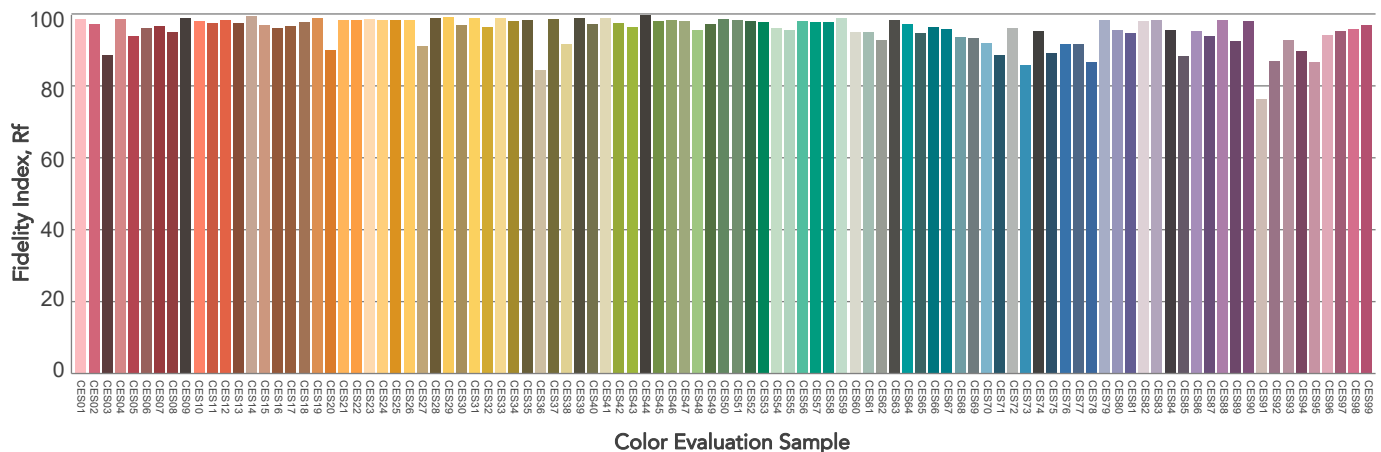
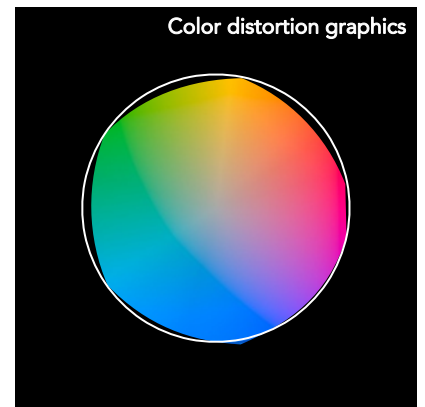
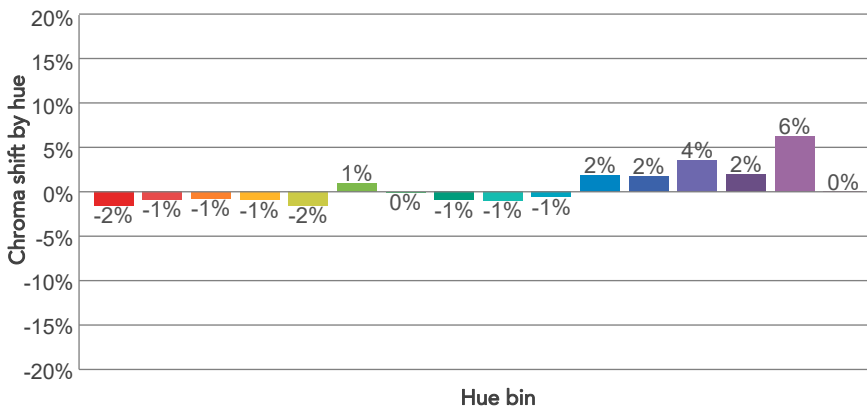
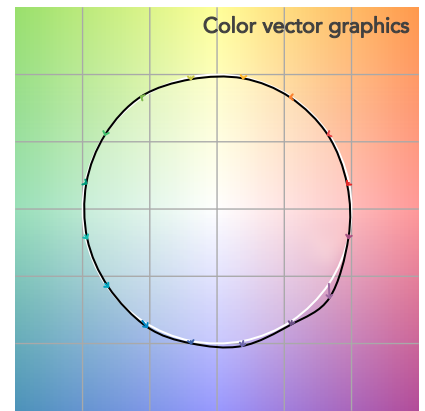
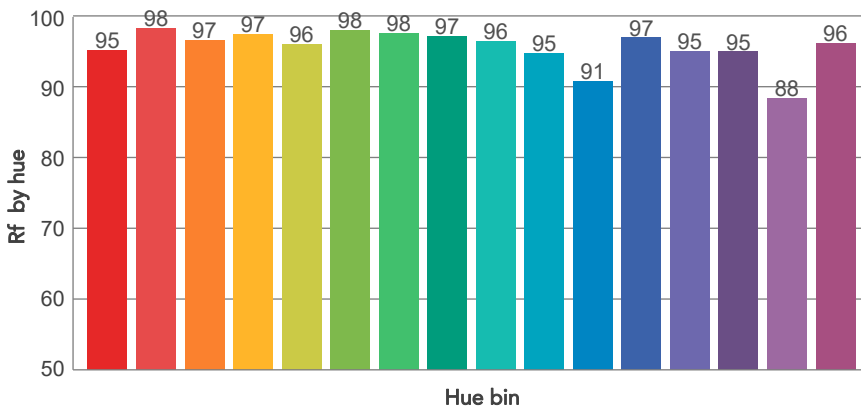
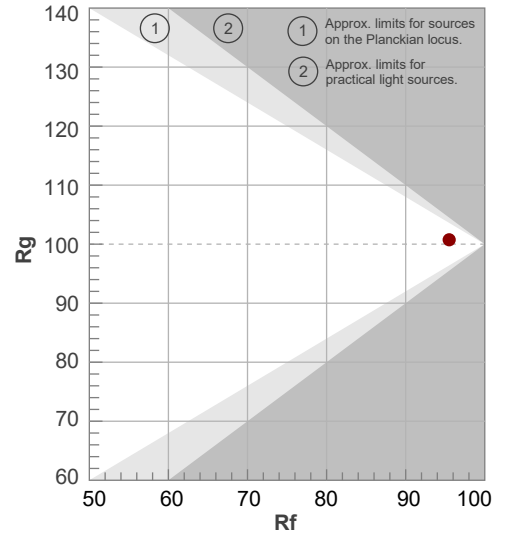
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5584 K	96,8	86,2	95,5	100,7	97,0	99	0,331	0,349	0,0048

TM30 DETAILS

Rf 95,5
Fidelity index Rf

Rg 100,7
Gammut index

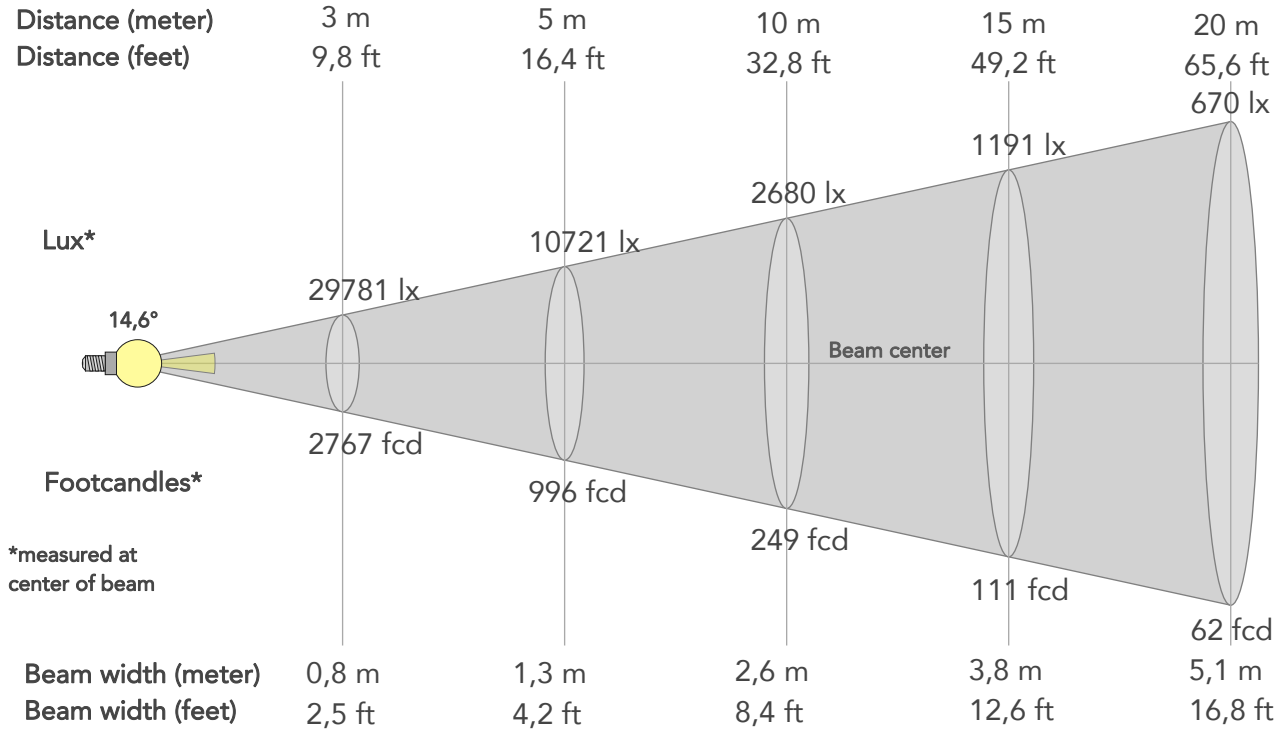
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	-2%	-1%
2	98	-1%	0%
3	97	-1%	1%
4	97	-1%	0%
5	96	-2%	0%
6	98	1%	1%
7	98	0%	0%
8	97	-1%	0%
9	96	-1%	3%
10	95	-1%	3%
11	91	2%	5%
12	97	2%	1%
13	95	4%	-2%
14	95	2%	-2%
15	88	6%	-8%
16	96	0%	-2%



BEAM DETAILS



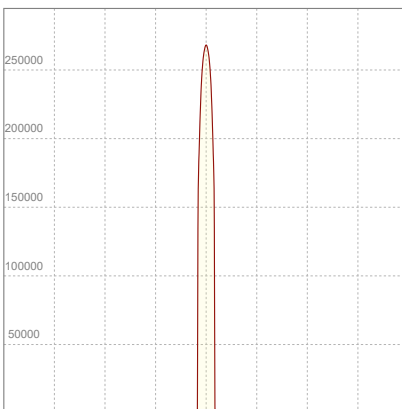
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
14,6°	15,4°	15,5°	100,0%	100,0%



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	268025lx	67006lx	29781lx	16752lx	10721lx	4765lx	2680lx	1191lx	670lx	429lx	298lx	168lx	107lx
Footcand.	24900fcd	6225fcd	2767fcd	1556fcd	996fcd	443fcd	249fcd	111fcd	62fcd	40fcd	28fcd	16fcd	10fcd
Beam wid.	0,3m	0,5m	0,8m	1m	1,3m	1,9m	2,6m	3,8m	5,1m	6,4m	7,7m	10,2m	12,8m
Beam wid.	0,8ft	1,7ft	2,5ft	3,3ft	4,2ft	6,3ft	8,4ft	12,6ft	16,8ft	20,9ft	25,1ft	33,5ft	41,9ft

LINEAR DISTRIBUTION DIAGRAM

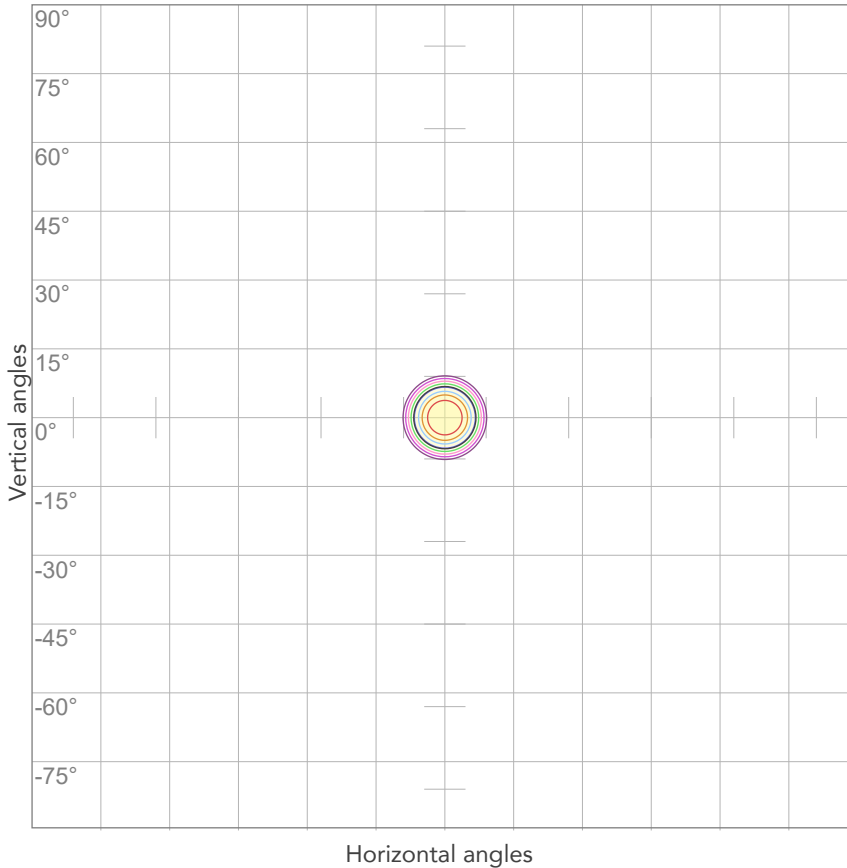


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
225V	1,99A	434,2W	0,97	26lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



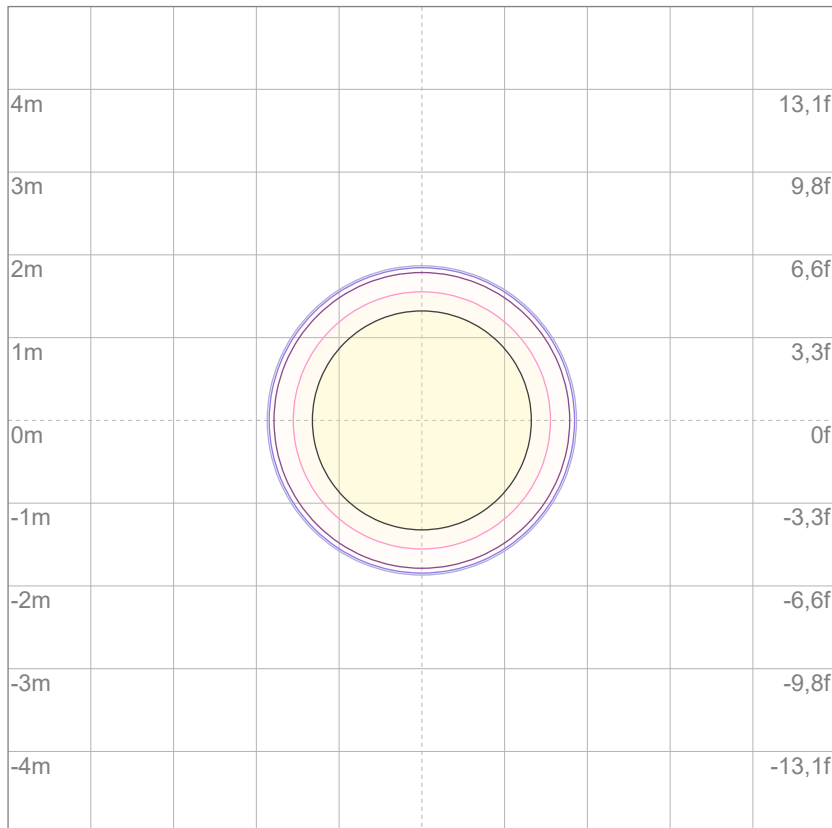
10%	26803 cd
20%	53605 cd
30%	80408 cd
40%	107210 cd
50%	134013 cd
60%	160815 cd
70%	187618 cd
80%	214420 cd

Conditions:

Number of c-planes: 2

Candela at center: 268025 cd

ISO LUX DIAGRAM



3%	80,4 lx
5%	134 lx
10%	268 lx
30%	804 lx
50%	1340 lx

Conditions:

Number of c-planes: 2

Lux at center: 2680 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

11405 lm

Peak candela output:

265879 cd

Light quality:

CRI: 96,1

Color temperature:

5925 K

PRODUCT NAME:

ECLFWHPVW

MEASURAMENT CONDITIONS:

Beam angle:

PRL14

Target:

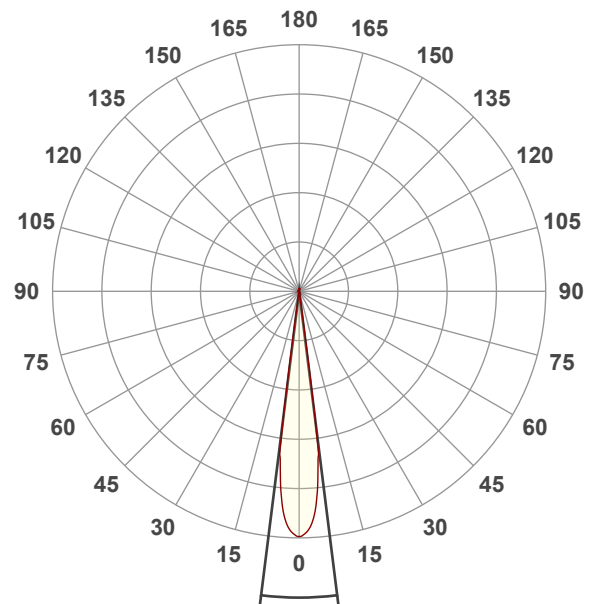
6000K

Operator:

Giuseppe della Peruta

Date and time:

08/01/2026 15:42:21

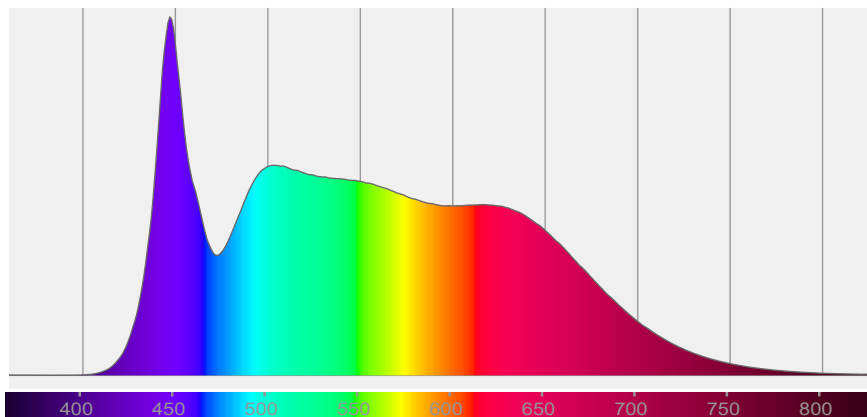


Beam angle 50%: 14,3°

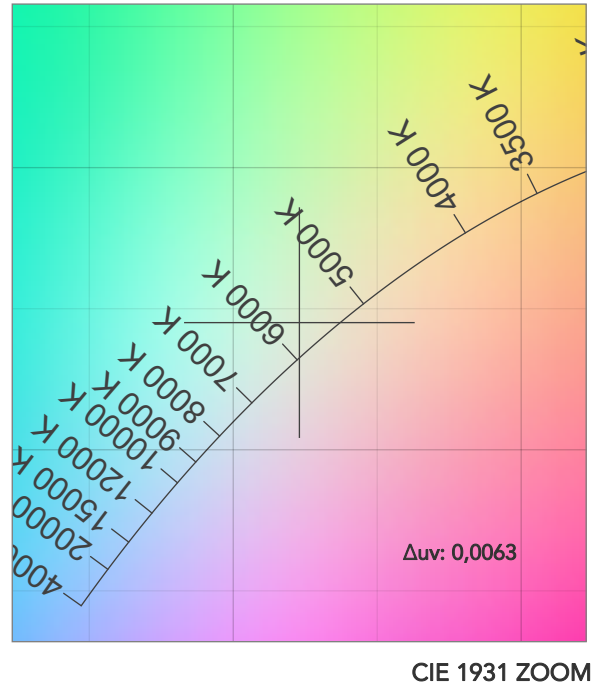
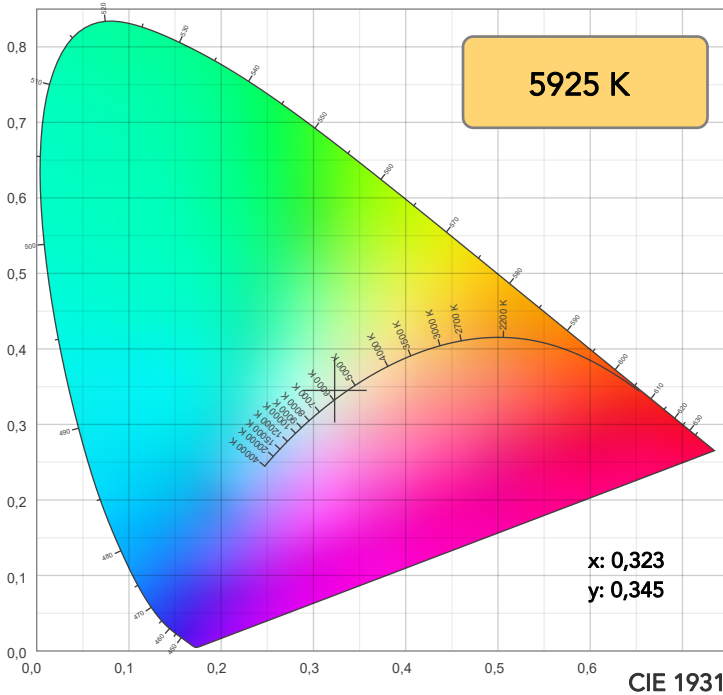
Field angle 10%: 15,6°

Cut off angle 2.5%: 15,8°

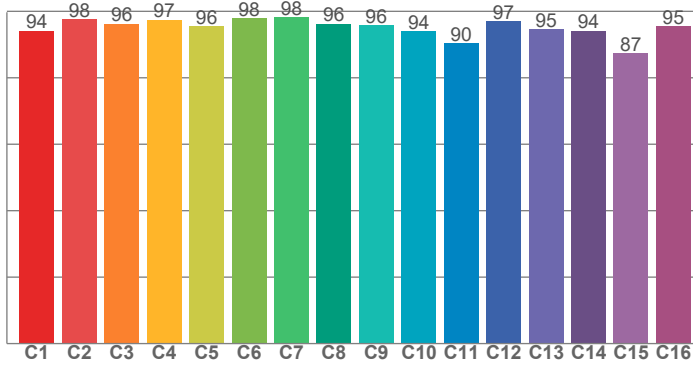
Spectra



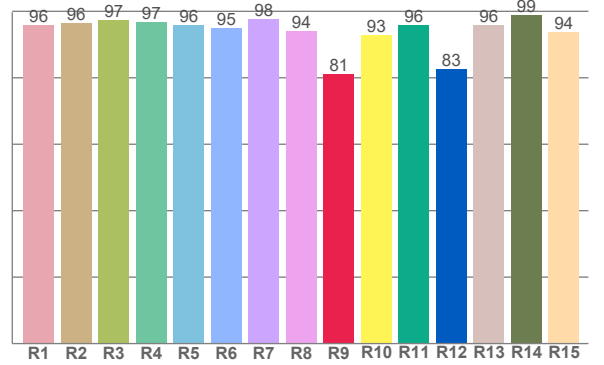
COLOR DETAILS



TM30: 95,0



CRI: 96,1 (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
95,8	96,3	97,4	96,7	95,9	95,0	97,6	93,9	81,1	92,8	95,9	82,6	95,8	98,9	93,8

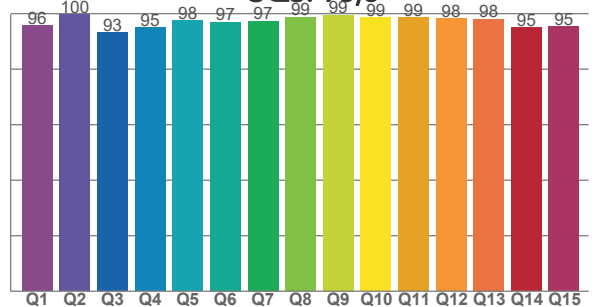
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,1	97,6	96,2	97,4	95,5	97,9	98,1	96,3	95,8	94,0	90,3	97,0	94,6	94,2	87,3	95,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,7	99,6	93,2	94,9	97,5	96,9	97,4	98,7	99,5	98,6	98,7	98,2	98,1	95,0	95,4

CQS: 96,6



COLOR PARAMETERS

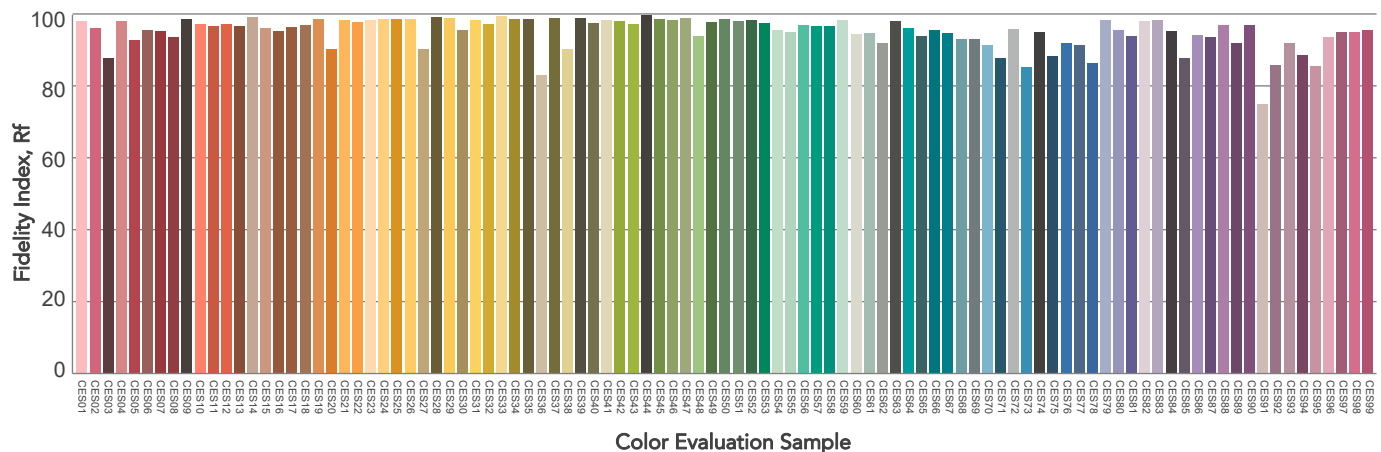
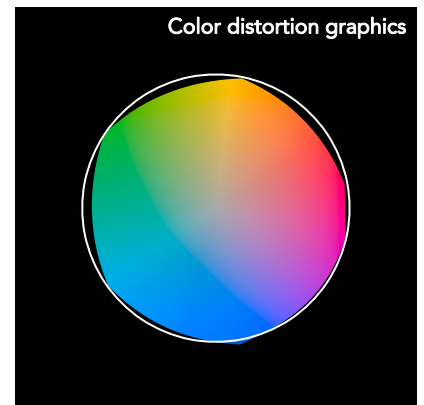
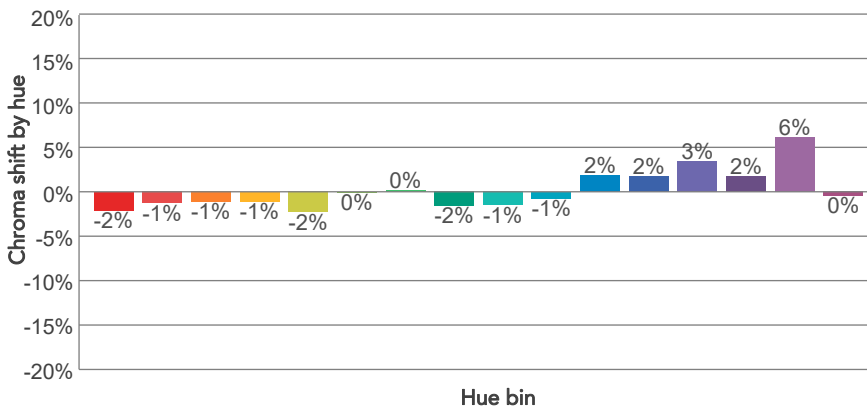
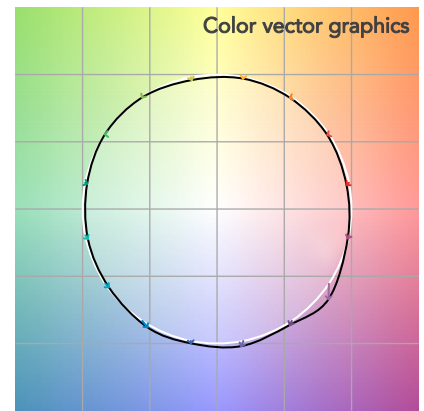
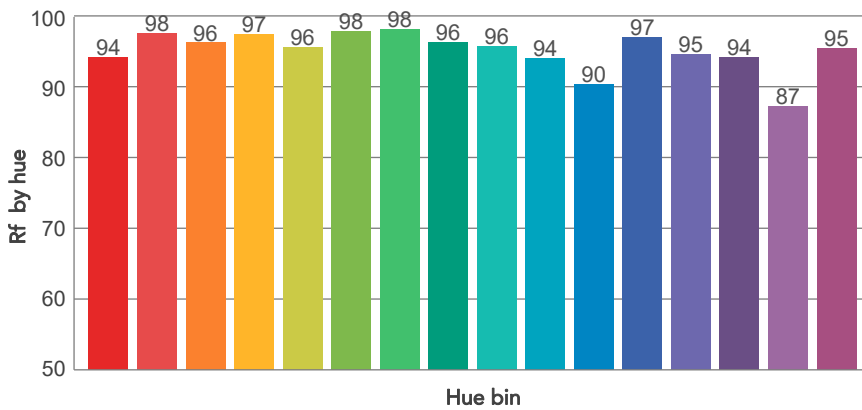
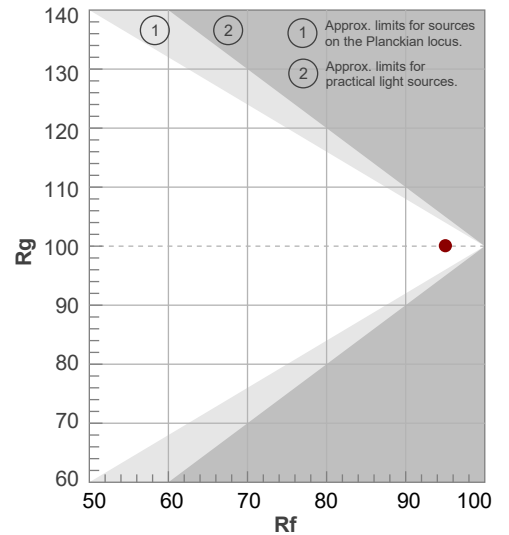
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5925 K	96,1	81,1	95,0	100,1	96,6	99	0,323	0,345	0,0063

TM30 DETAILS

Rf 95,0
Fidelity index Rf

Rg 100,1
Gammut index

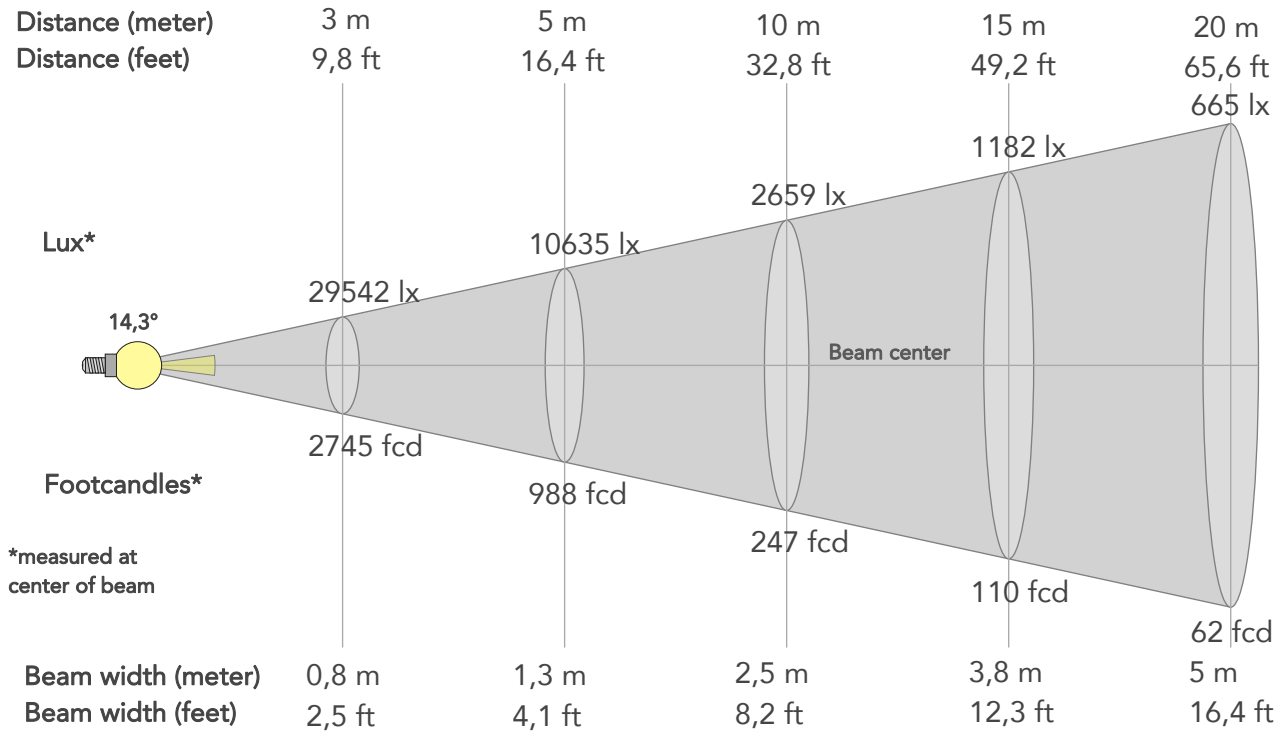
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	-2%	-1%
2	98	-1%	0%
3	96	-1%	1%
4	97	-1%	0%
5	96	-2%	0%
6	98	0%	0%
7	98	0%	0%
8	96	-2%	0%
9	96	-1%	3%
10	94	-1%	4%
11	90	2%	6%
12	97	2%	0%
13	95	3%	-2%
14	94	2%	-3%
15	87	6%	-10%
16	95	0%	-2%



BEAM DETAILS



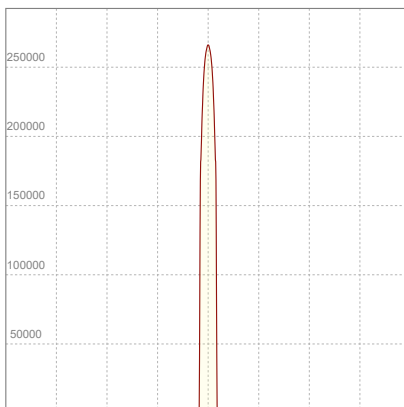
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
14,3°	15,6°	15,8°	99,9%	99,9%



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	265879lx	66470lx	29542lx	16617lx	10635lx	4727lx	2659lx	1182lx	665lx	425lx	295lx	166lx	106lx
Footcand.	24701fcd	6175fcd	2745fcd	1544fcd	988fcd	439fcd	247fcd	110fcd	62fcd	40fcd	27fcd	15fcd	10fcd
Beam wid.	0,3m	0,5m	0,8m	1m	1,3m	1,9m	2,5m	3,8m	5m	6,3m	7,5m	10m	12,5m
Beam wid.	0,8ft	1,7ft	2,5ft	3,3ft	4,1ft	6,2ft	8,2ft	12,3ft	16,4ft	20,5ft	24,6ft	32,8ft	41,1ft

LINEAR DISTRIBUTION DIAGRAM

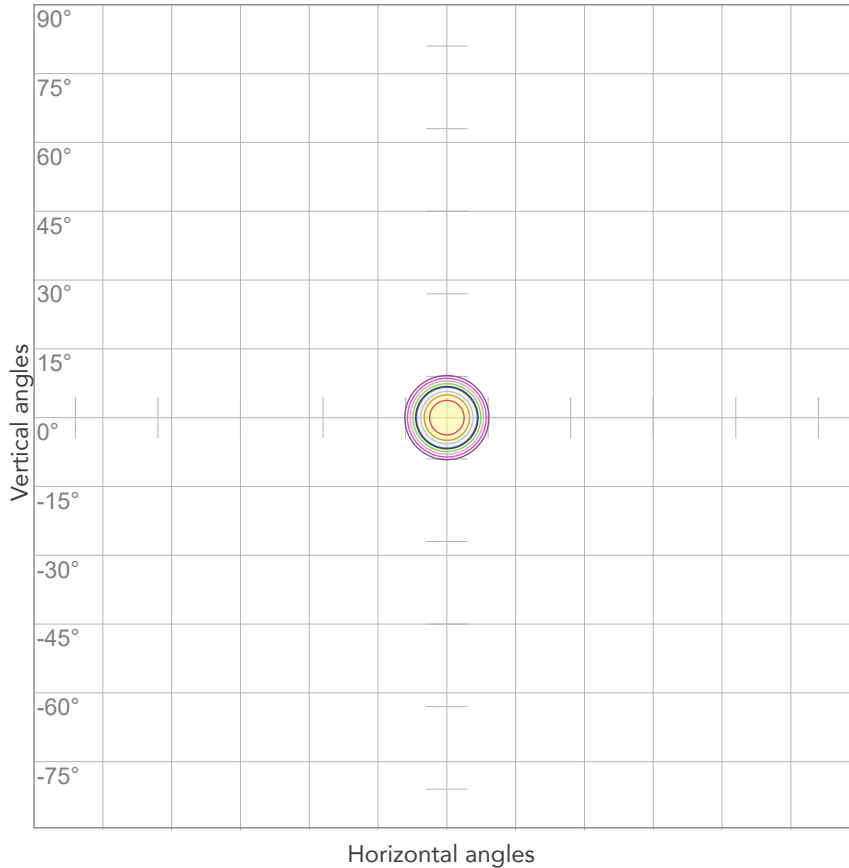


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
225V	1,94A	424,8W	0,97	27lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



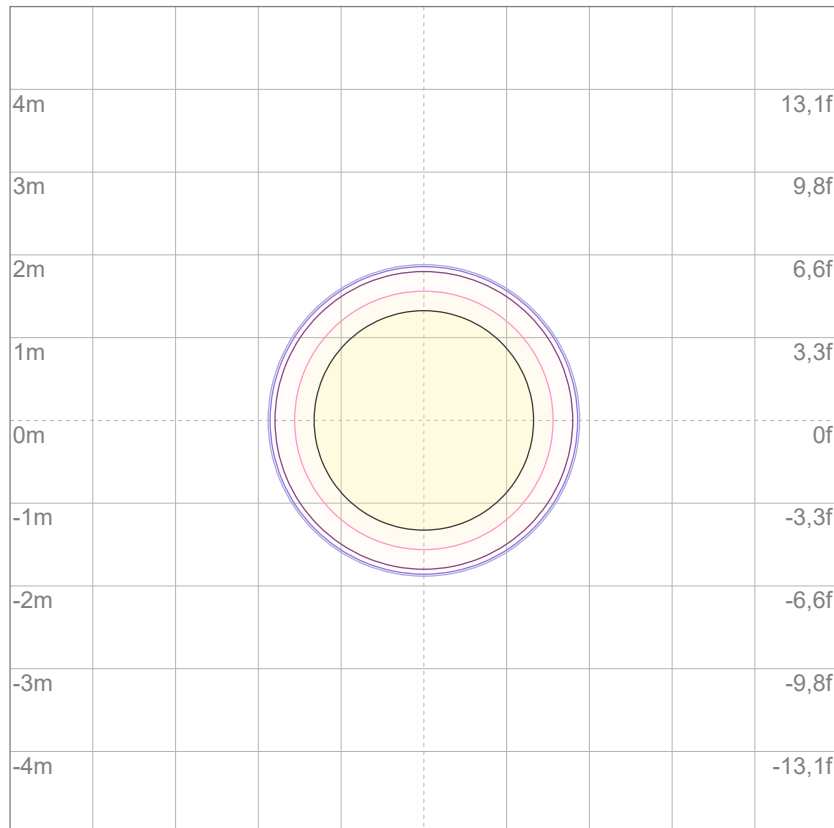
10%	26588 cd
20%	53176 cd
30%	79764 cd
40%	106352 cd
50%	132940 cd
60%	159528 cd
70%	186116 cd
80%	212704 cd

Conditions:

Number of c-planes: 2

Candela at center: 265879 cd

ISO LUX DIAGRAM



3%	79,8 lx
5%	133 lx
10%	266 lx
30%	798 lx
50%	1329 lx

Conditions:

Number of c-planes: 2

Lux at center: 2659 lx

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

Mounting height: 10 meters (33 feet)