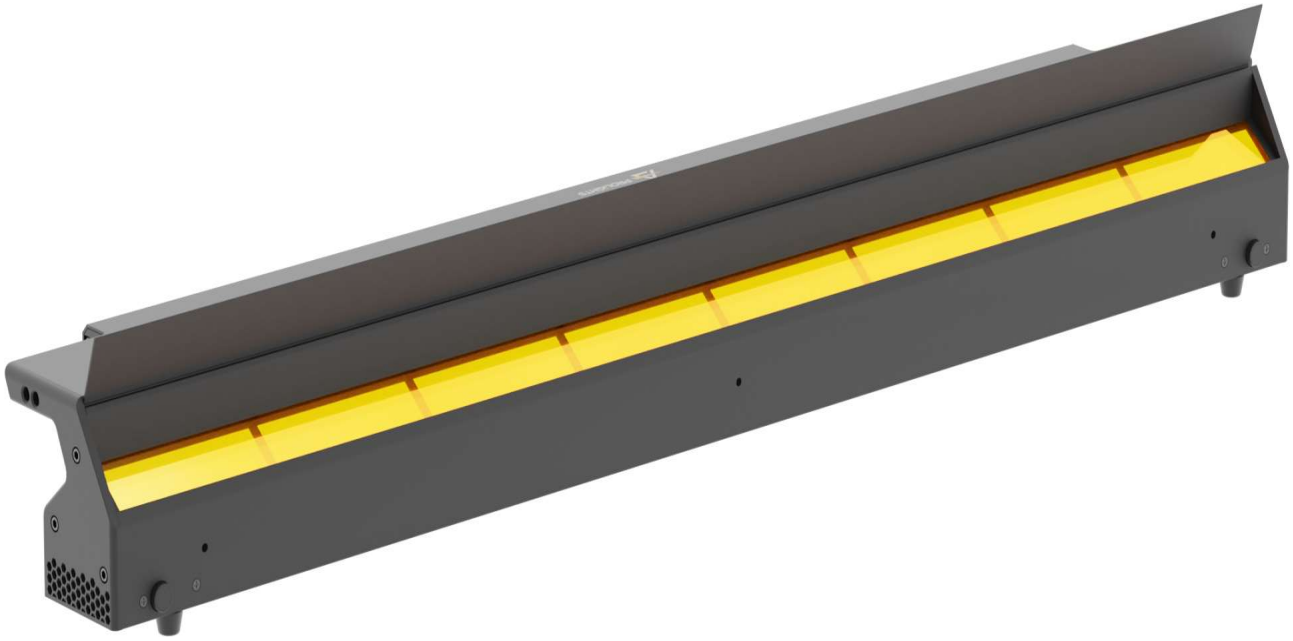
Photometric Test Report



ECLCYC100

330W RGB+W LED cyclorama projector

(filter 30°x60°)

CONTENTS

TESTING PROCESS

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

Prolights measurement instrument

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

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

Prolights measurement software

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

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

Total lumen output:

24527 lm

Peak candela output:

27375 cd

PRODUCT NAME:

ECL CYC100

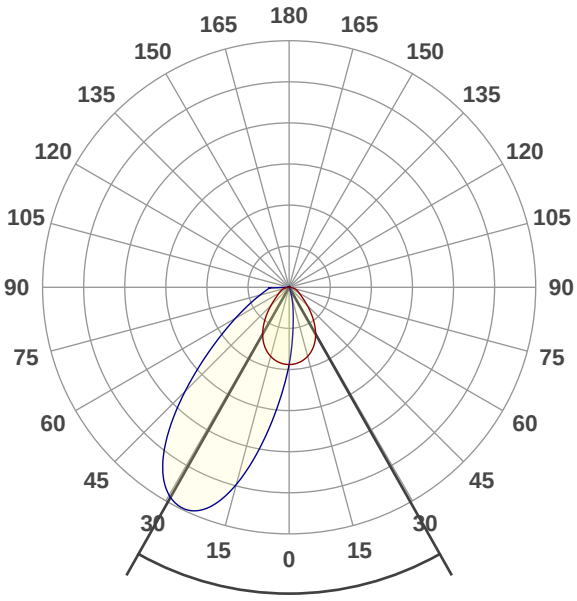
MEASURAMENT CONDITIONS:

Beam angle:
Filter 3060

Target:
Full On Not Calibrated

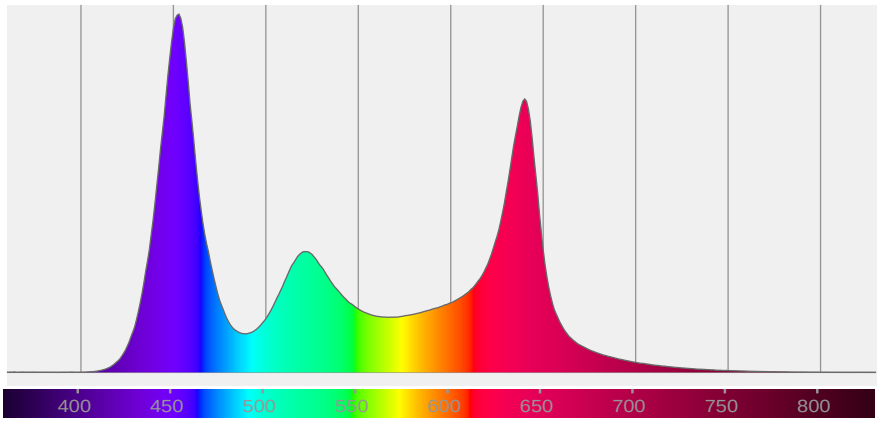
Operator:
Paolo Carvone

Date and time:
23/03/2021 15:28:42

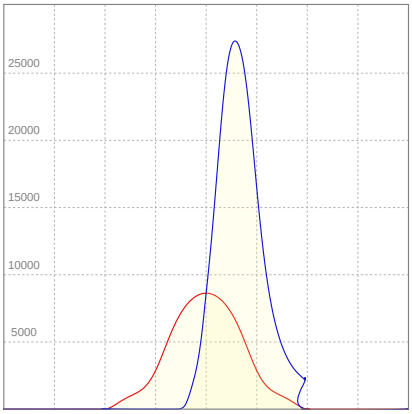


Beam angle 50%: 58,9°
Field angle 10%: 115,3°
Cut off angle 2.5%: 135,3°

Spectra



LINEAR DISTRIBUTION DIAGRAM



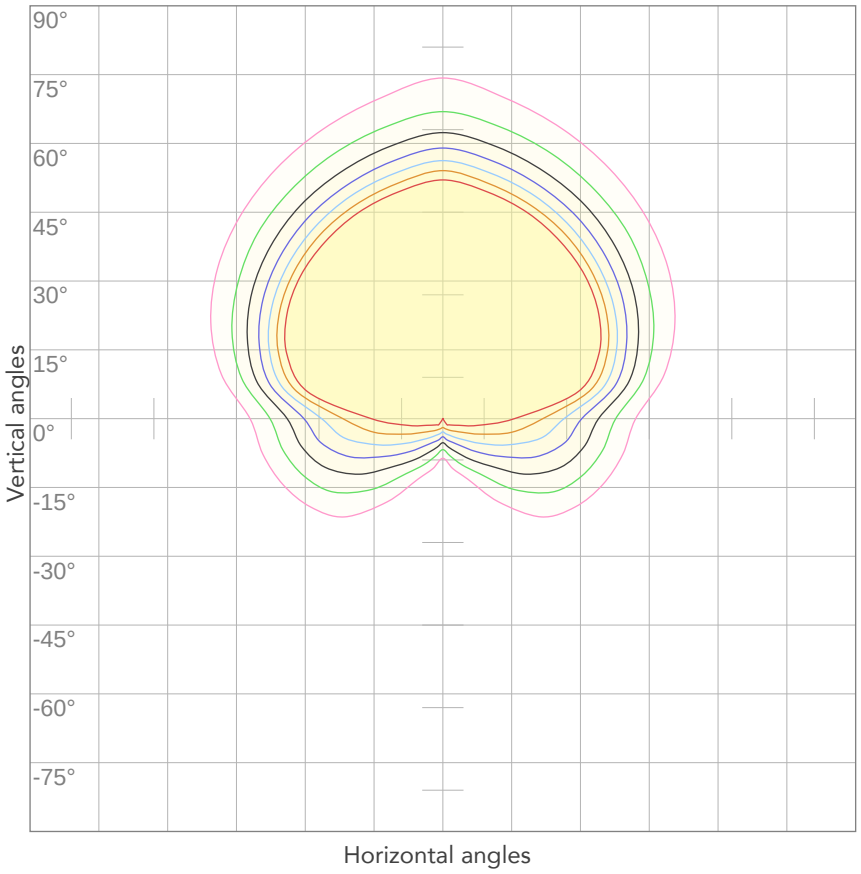
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	1,87A	393,2W	62lm/W

Power FC
0,94

ISO DIAGRAMS

ISO CANDELA DIAGRAM



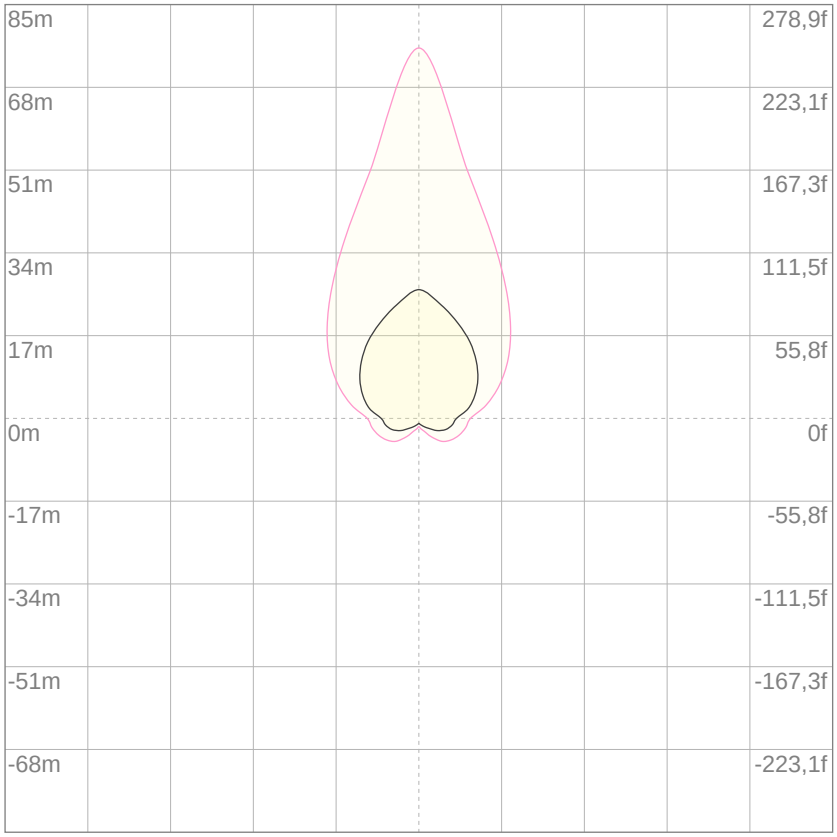
10%	863 cd
20%	1725 cd
30%	2588 cd
40%	3451 cd
50%	4313 cd
60%	5176 cd
70%	6039 cd
80%	6901 cd

Conditions:

Number of c-planes: 4

Candela at center: 8627 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	2,59 lx
5%	4,31 lx
10%	8,63 lx
30%	25,9 lx
50%	43,1 lx

Conditions:

Number of c-planes: 4

Lux at center: 86,3 lx

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

Total lumen output:

4437 lm

Peak candela output:

5165 cd

PRODUCT NAME:

ECL CYC100

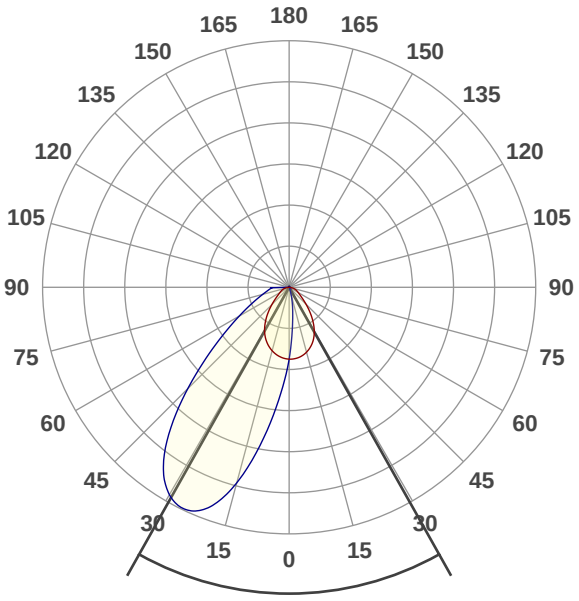
MEASURAMENT CONDITIONS:

Beam angle:
Filter 3060

Target:
Red

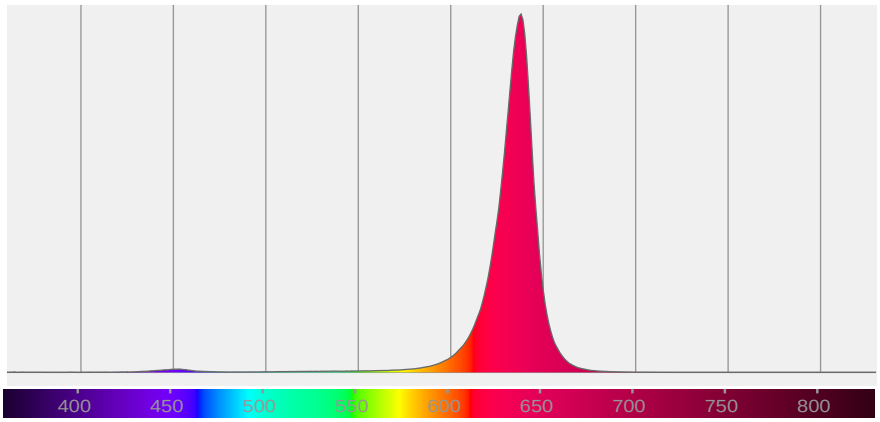
Operator:
Paolo Carvone

Date and time:
23/03/2021 15:21:34

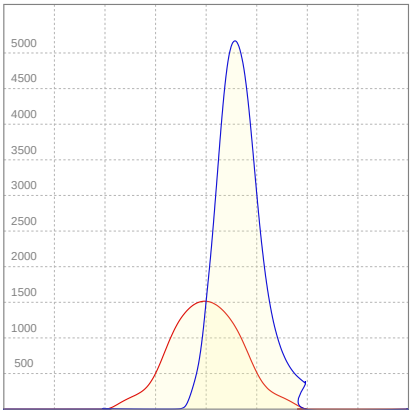


Beam angle 50%: 58,6°
Field angle 10%: 112,4°
Cut off angle 2.5%: 134,6°

Spectra



LINEAR DISTRIBUTION DIAGRAM



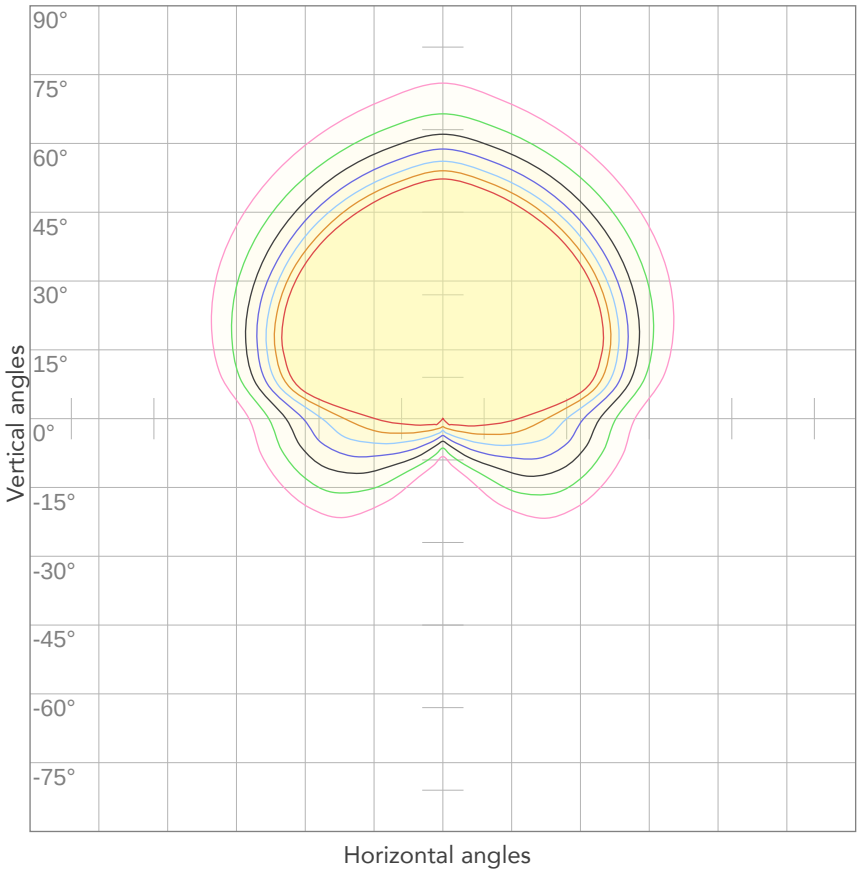
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,551A	78,4W	57lm/W

Power FC
0,63

ISO DIAGRAMS

ISO CANDELA DIAGRAM



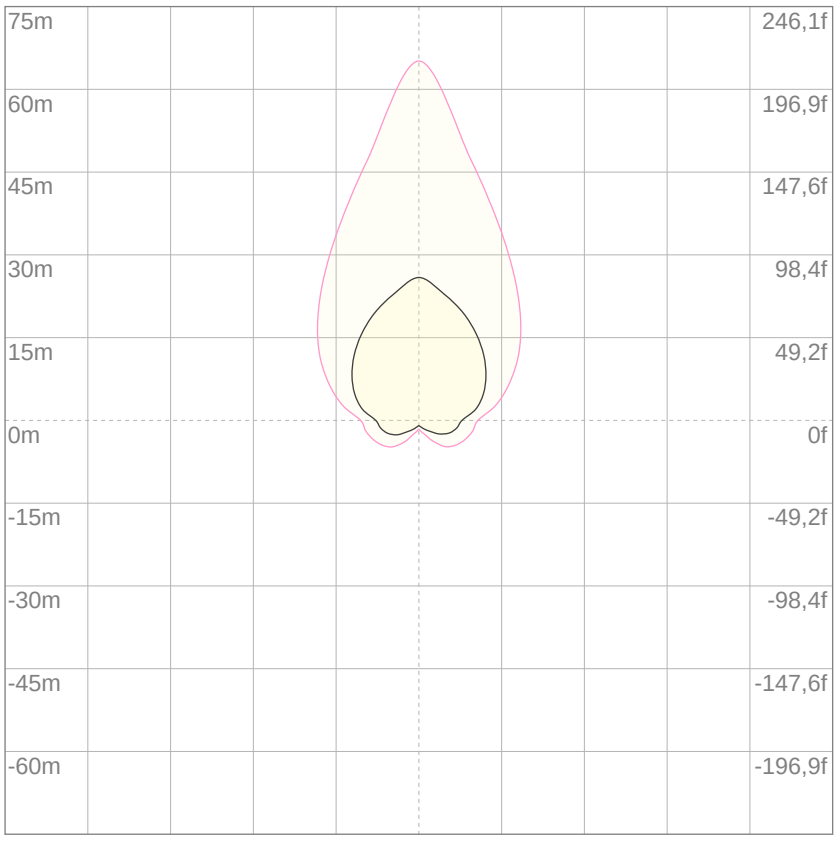
10%	151 cd
20%	303 cd
30%	454 cd
40%	605 cd
50%	757 cd
60%	908 cd
70%	1060 cd
80%	1211 cd

Conditions:

Number of c-planes: 4

Candela at center: 1514 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,454 lx
5%	0,757 lx
10%	1,51 lx
30%	4,54 lx
50%	7,57 lx

Conditions:

Number of c-planes: 4

Lux at center: 15,1 lx

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

Total lumen output:

7118 lm

Peak candela output:

7947 cd

PRODUCT NAME:

ECL CYC100

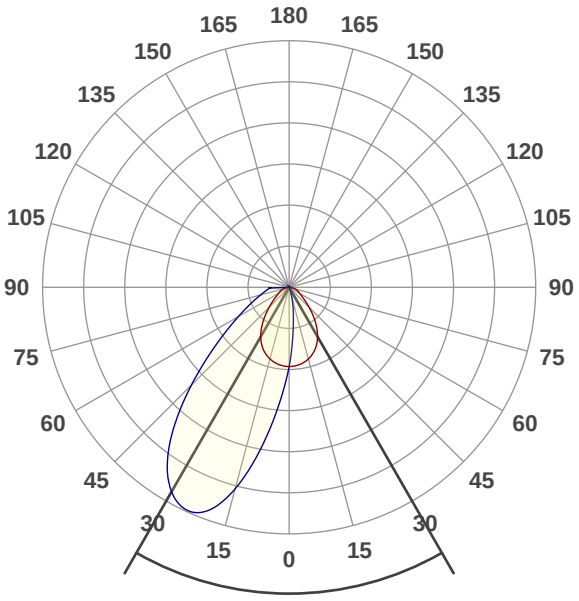
MEASURAMENT CONDITIONS:

Beam angle:
Filter 3060

Target:
Green

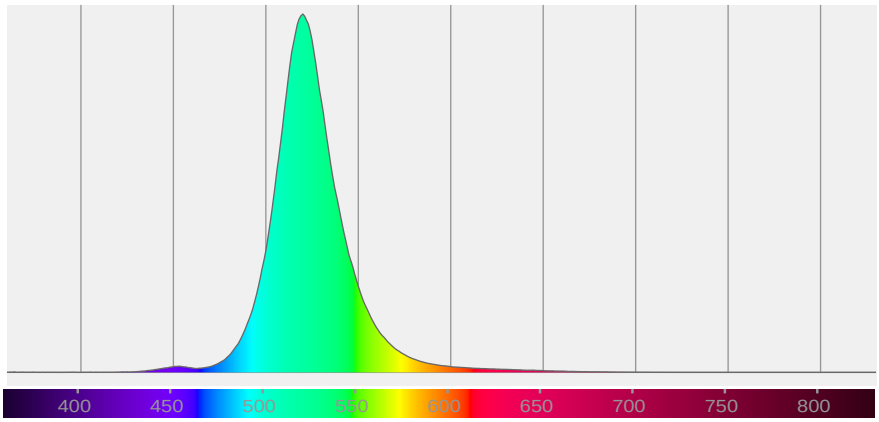
Operator:
Paolo Carvone

Date and time:
23/03/2021 15:19:19

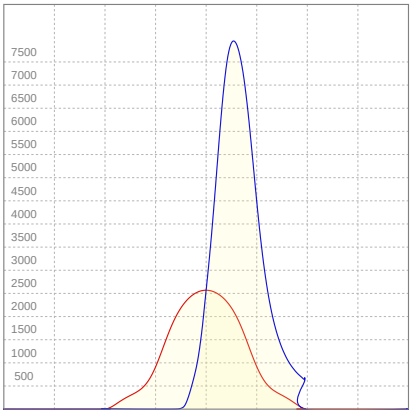


Beam angle 50%: 59,8°
Field angle 10%: 115,6°
Cut off angle 2.5%: 135,3°

Spectra



LINEAR DISTRIBUTION DIAGRAM



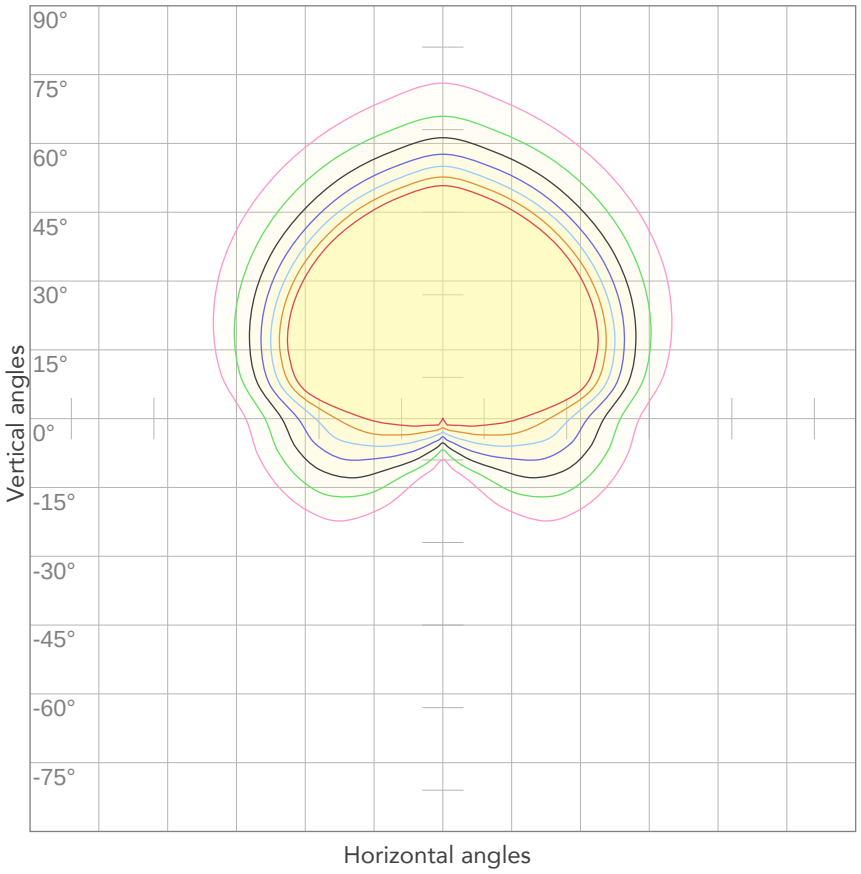
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,593A	89,2W	80lm/W

Power FC
0,67

ISO DIAGRAMS

ISO CANDELA DIAGRAM



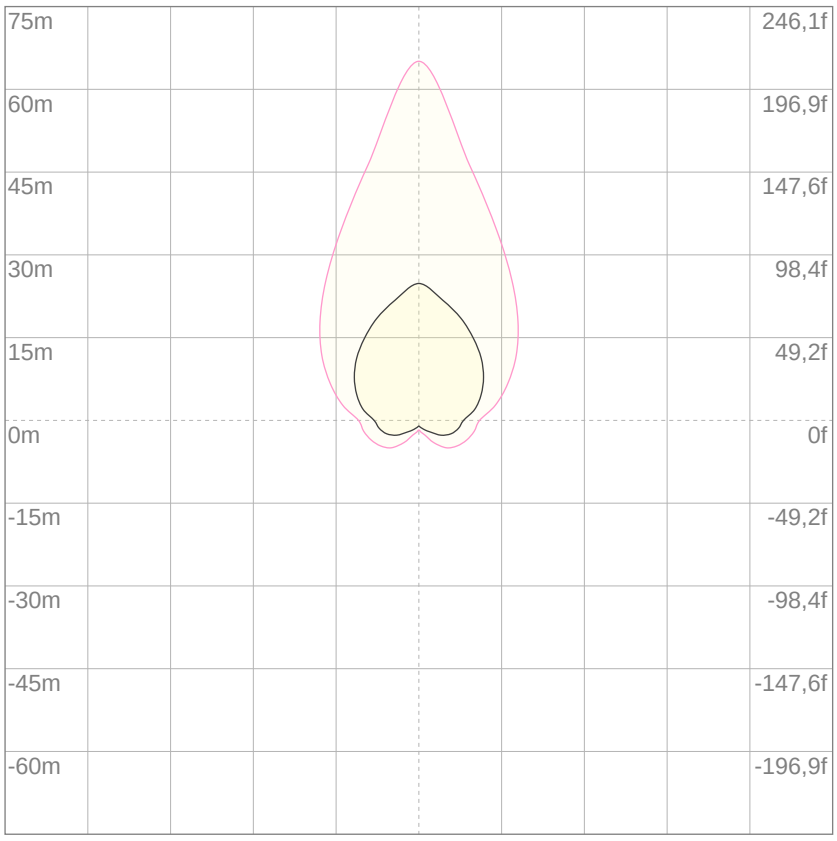
10%	257 cd
20%	514 cd
30%	770 cd
40%	1027 cd
50%	1284 cd
60%	1541 cd
70%	1798 cd
80%	2055 cd

Conditions:

Number of c-planes: 4

Candela at center: 2568 cd

ISO LUX DIAGRAM



3%	0,770 lx
5%	1,28 lx
10%	2,57 lx
30%	7,70 lx
50%	12,8 lx

Conditions:

Number of c-planes: 4

Lux at center: 25,7 lx

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

Total lumen output:

2521 lm

Peak candela output:

2925 cd

PRODUCT NAME:

ECL CYC100

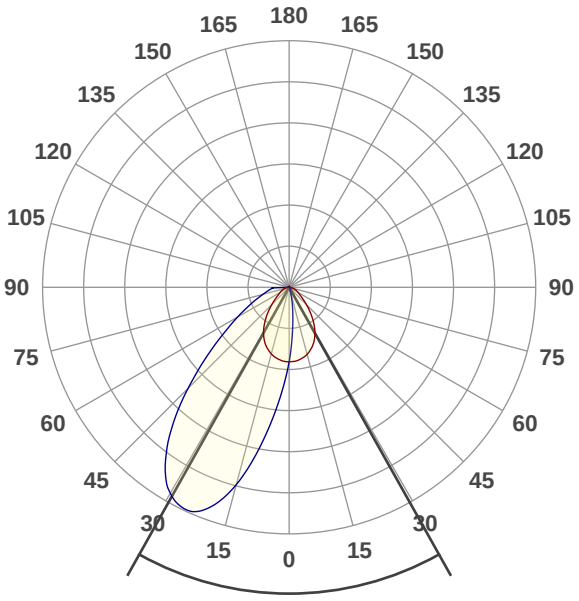
MEASURAMENT CONDITIONS:

Beam angle:
Filter 3060

Target:
Blue

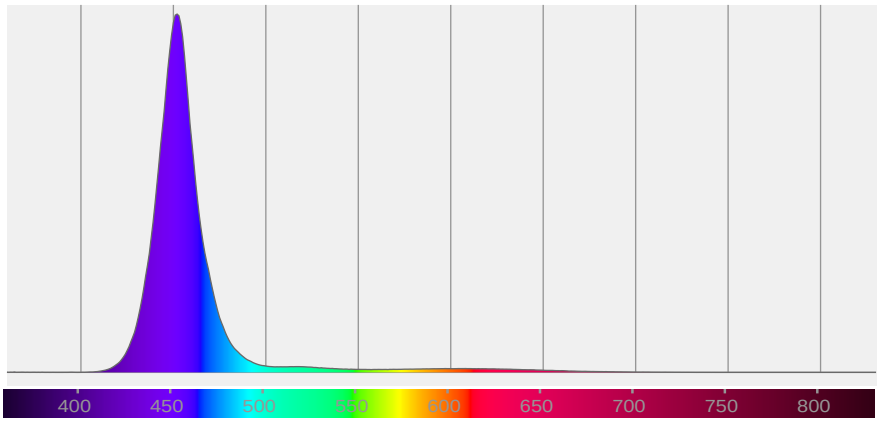
Operator:
Paolo Carvone

Date and time:
23/03/2021 15:16:00



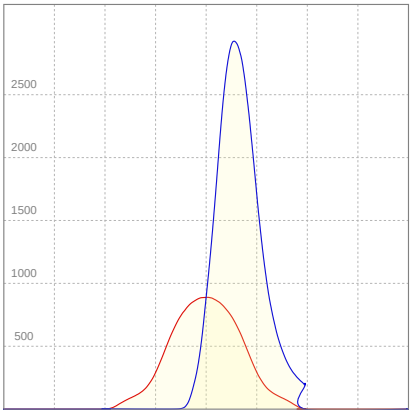
Beam angle 50%: 58,6°
Field angle 10%: 110,3°
Cut off angle 2.5%: 132,5°

Spectra



BEAM DETAILS

LINEAR DISTRIBUTION DIAGRAM



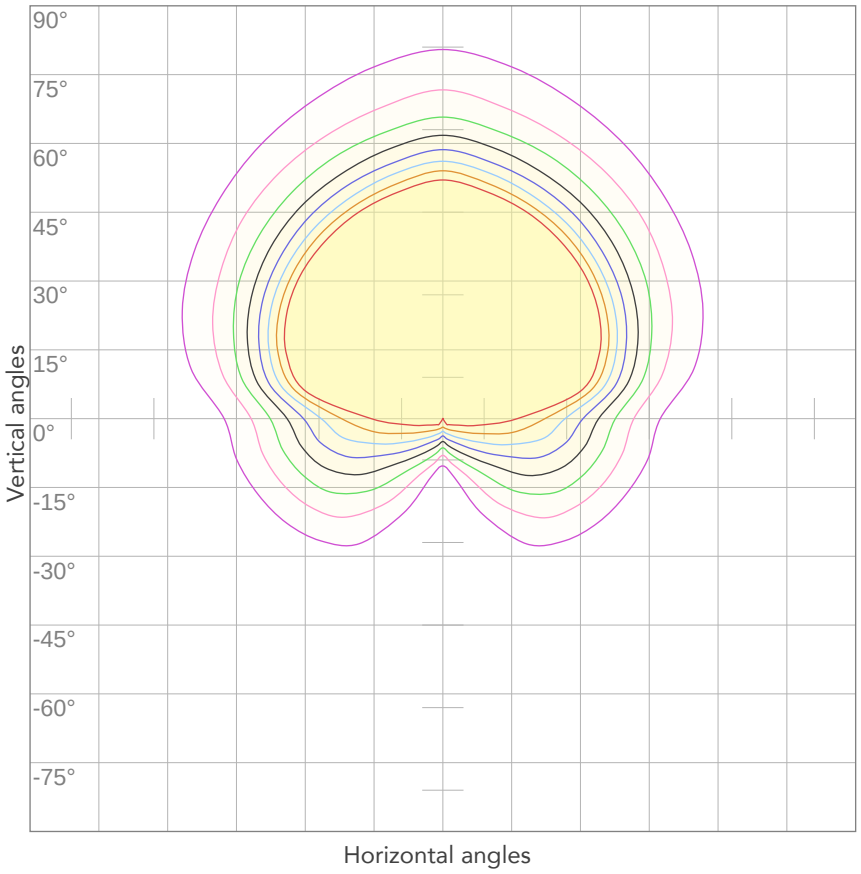
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,626A	96,9W	26lm/W

Power FC
0,69

ISO DIAGRAMS

ISO CANDELA DIAGRAM



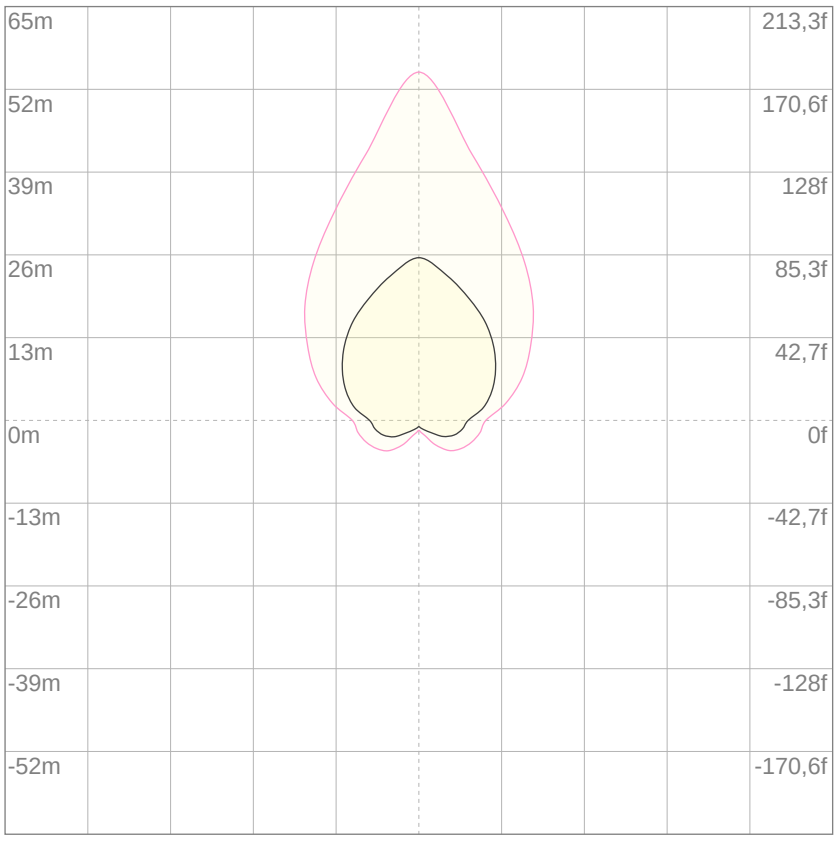
10%	89 cd
20%	178 cd
30%	266 cd
40%	355 cd
50%	444 cd
60%	533 cd
70%	622 cd
80%	711 cd

Conditions:

Number of c-planes: 4

Candela at center: 888 cd

ISO LUX DIAGRAM



3%	0,266 lx
5%	0,444 lx
10%	0,888 lx
30%	2,66 lx
50%	4,44 lx

Conditions:

Number of c-planes: 4

Lux at center: 8,88 lx

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

Total lumen output:

23582 lm

Peak candela output:

26587 cd

PRODUCT NAME:

ECL CYC100

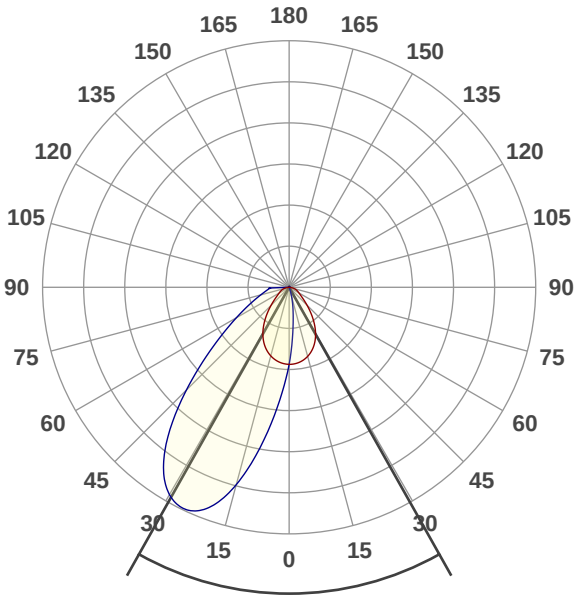
MEASURAMENT CONDITIONS:

Beam angle:
Filter 3060

Target:
White

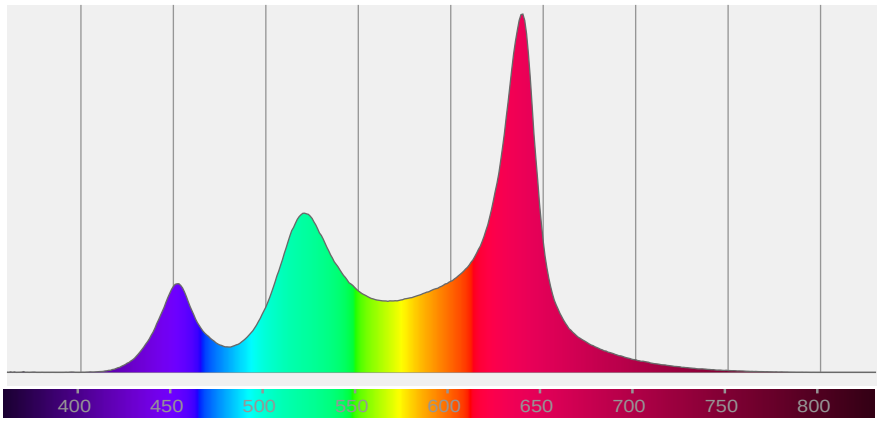
Operator:
Paolo Carvone

Date and time:
23/03/2021 15:25:04



Beam angle 50%: 58,7°
Field angle 10%: 114,3°
Cut off angle 2.5%: 134,8°

Spectra



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musiclights.it

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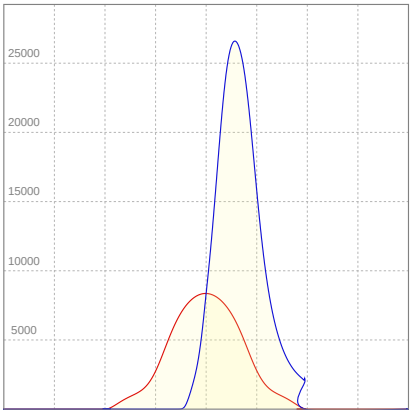
04026 - Minturno (LT) ITALY
Tel: +39 0771 72190

prolights.it
info@prolights.it

LINEAR DISTRIBUTION DIAGRAM



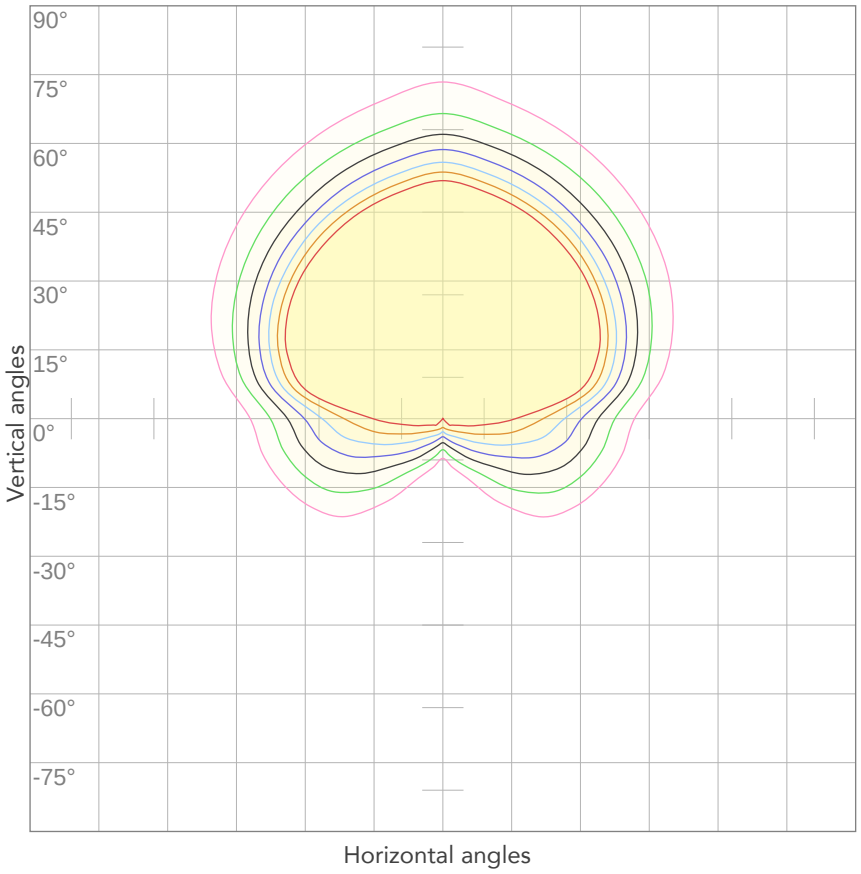
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	1,55A	322,1W	73lm/W

Power FC
0,93

ISO DIAGRAMS

ISO CANDELA DIAGRAM



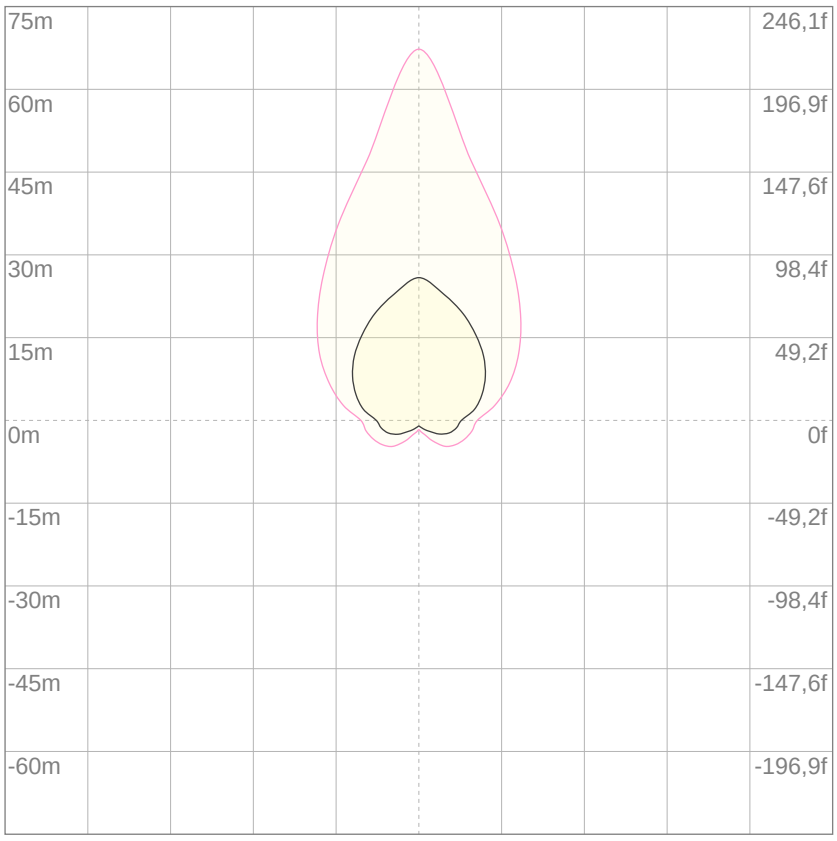
10%	836 cd
20%	1671 cd
30%	2507 cd
40%	3343 cd
50%	4179 cd
60%	5014 cd
70%	5850 cd
80%	6686 cd

Conditions:

Number of c-planes: 4

Candela at center: 8357 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	2,51 lx
5%	4,18 lx
10%	8,36 lx
30%	25,1 lx
50%	41,8 lx

Conditions:

Number of c-planes: 4

Lux at center: 83,6 lx

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

Total lumen output:

14534 lm

Peak candela output:

16398 cd

Light quality:

CRI: 93,1

Color temperature:

2811 K

PRODUCT NAME:

ECL CYC100

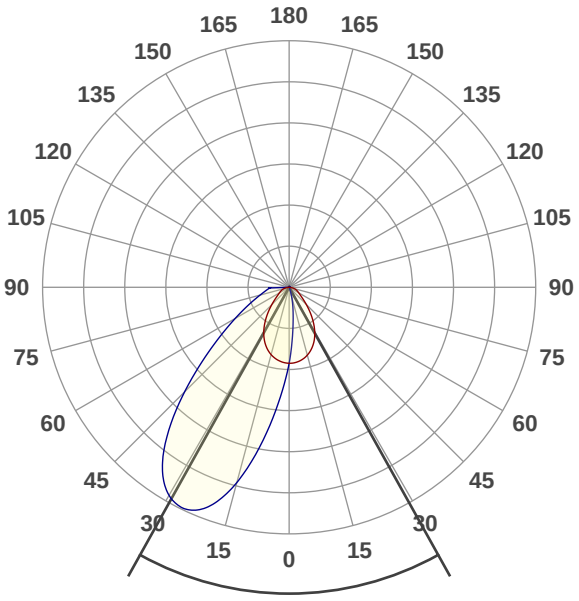
MEASURAMENT CONDITIONS:

Beam angle:
Filter 3060

Target:
2800K

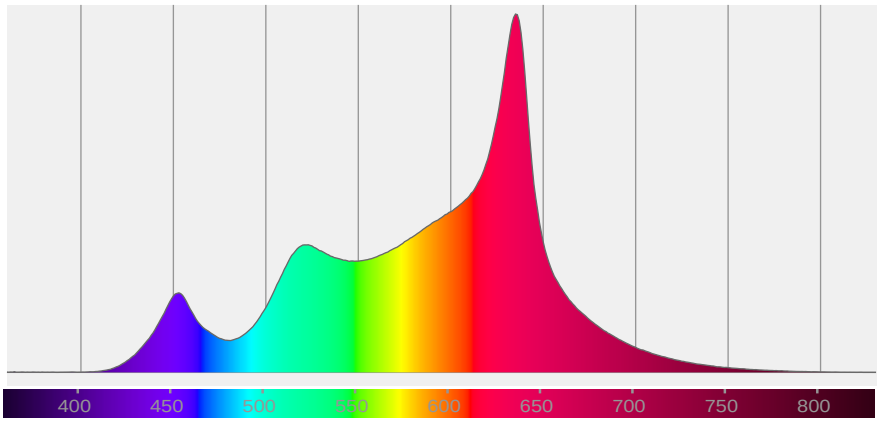
Operator:
Paolo Carvone

Date and time:
23/03/2021 15:02:26

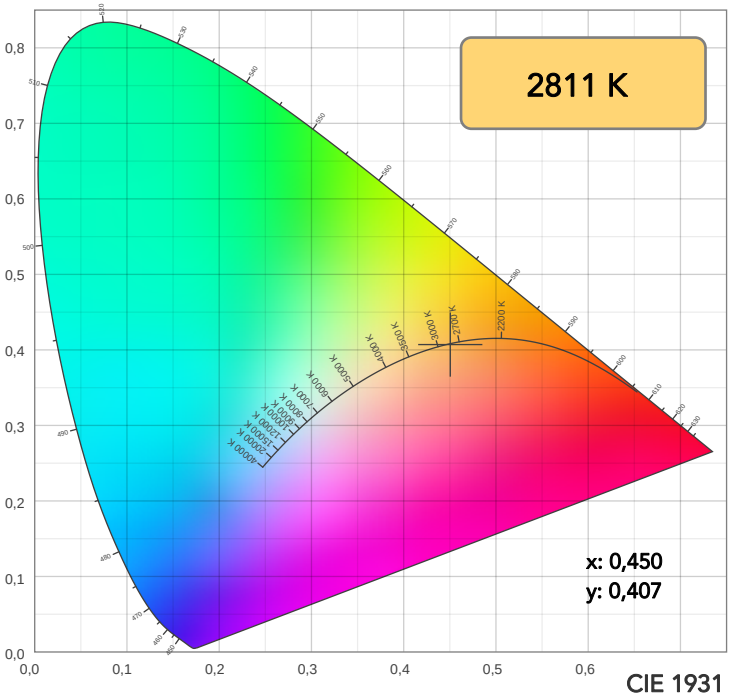


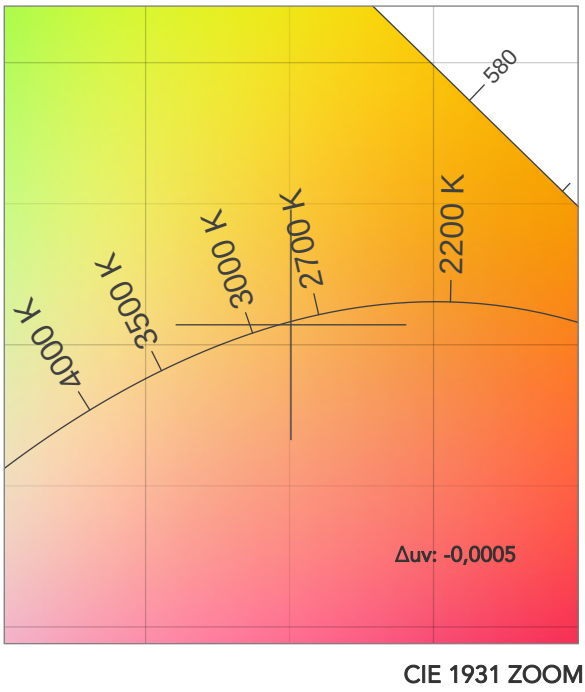
Beam angle 50%: 58,2°
Field angle 10%: 114,7°
Cut off angle 2.5%: 135,2°

Spectra

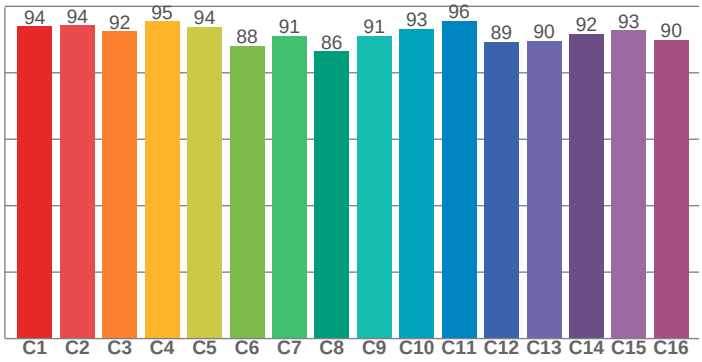


COLOR DETAILS

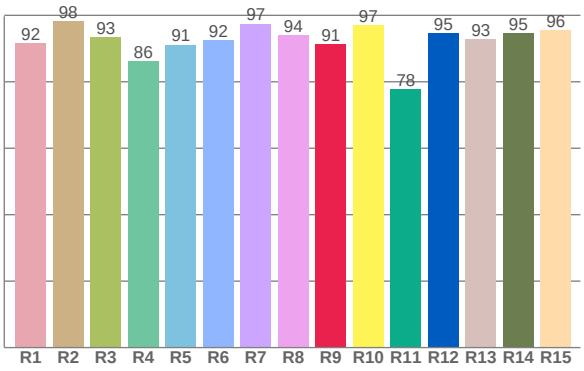




TM30: 92,4



CRI: 93,1 (R1-R8)



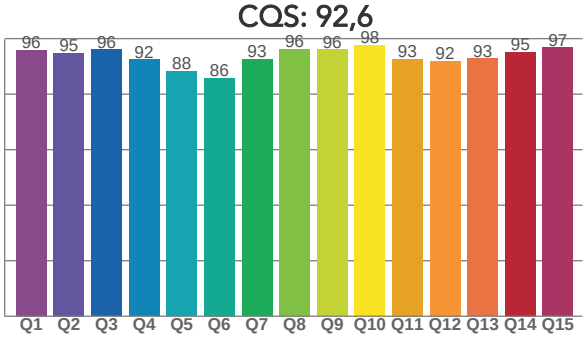
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
91,5	98,1	93,5	86,3	91,2	92,4	97,4	94,0	91,4	97,1	77,8	94,7	92,8	94,5	95,5

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
94,0	94,3	92,5	95,5	93,8	88,1	91,2	86,5	91,1	93,2	95,6	89,3	89,6	91,8	92,8	89,9

CQS: 92,6



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,9	94,8	96,0	92,4	88,2	85,9	92,6	96,3	96,1	97,7	92,6	91,9	92,9	95,2	96,7

COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2811 K	93,1	91,4	92,4	105,1	92,6	86	0,450	0,407	-0,0005

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TM30 DETAILS

PROLiGHTS

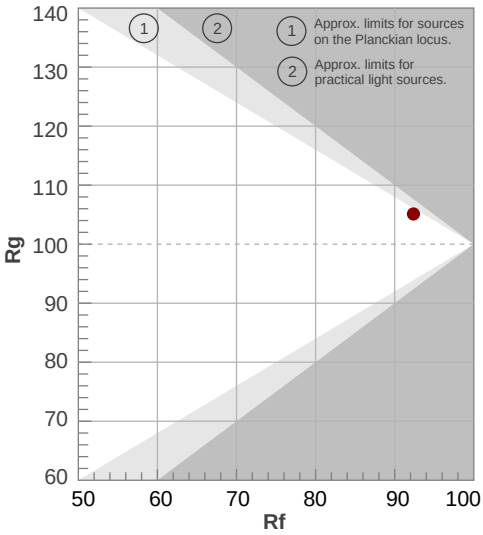
Rf 92,4

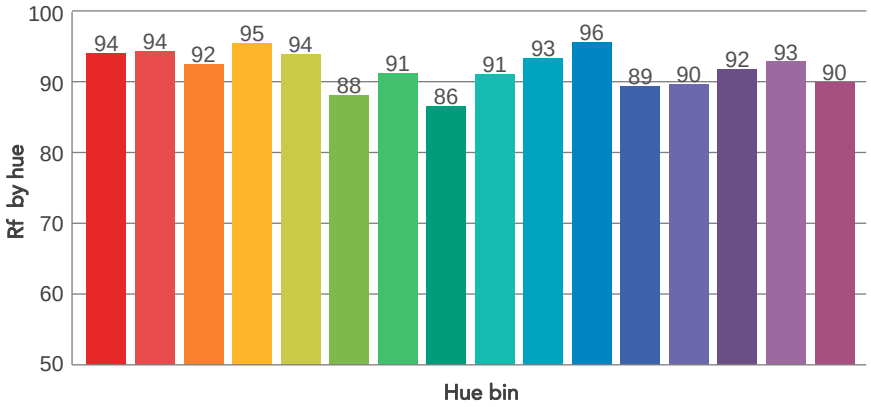
Fidelity index Rf

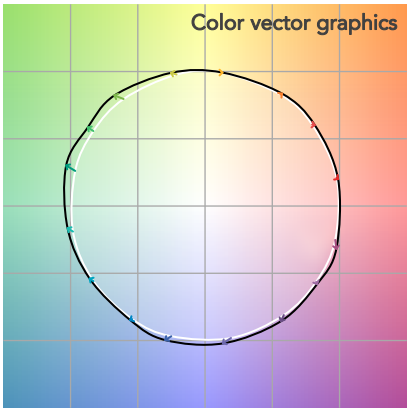
Rg 105,1

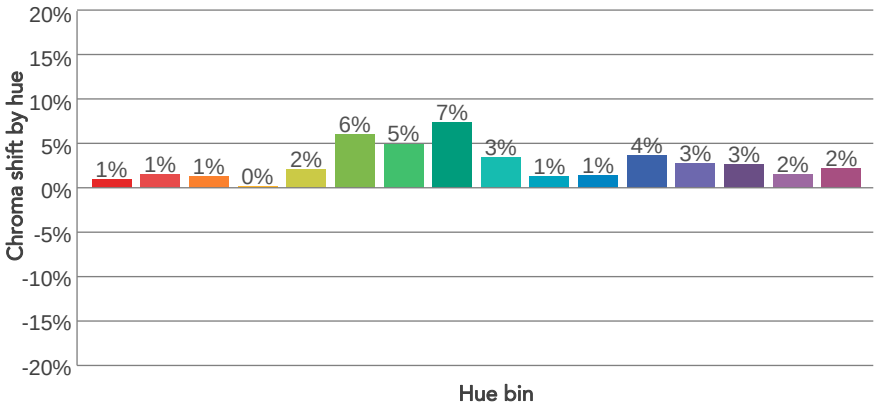
Gammut index

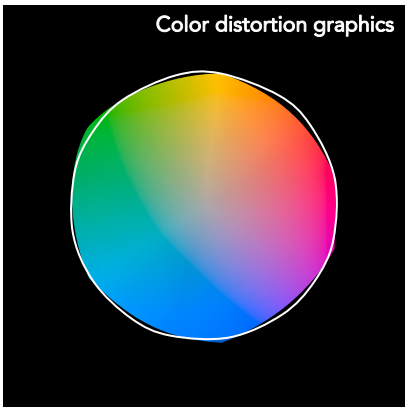
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	94	1%	-1%
2	94	1%	-1%
3	92	1%	0%
4	95	0%	-1%
5	94	2%	4%
6	88	6%	4%
7	91	5%	0%
8	86	7%	-3%
9	91	3%	-3%
10	93	1%	-3%
11	96	1%	-1%
12	89	4%	-4%
13	90	3%	-7%
14	92	3%	-4%
15	93	2%	-1%
16	90	2%	-6%

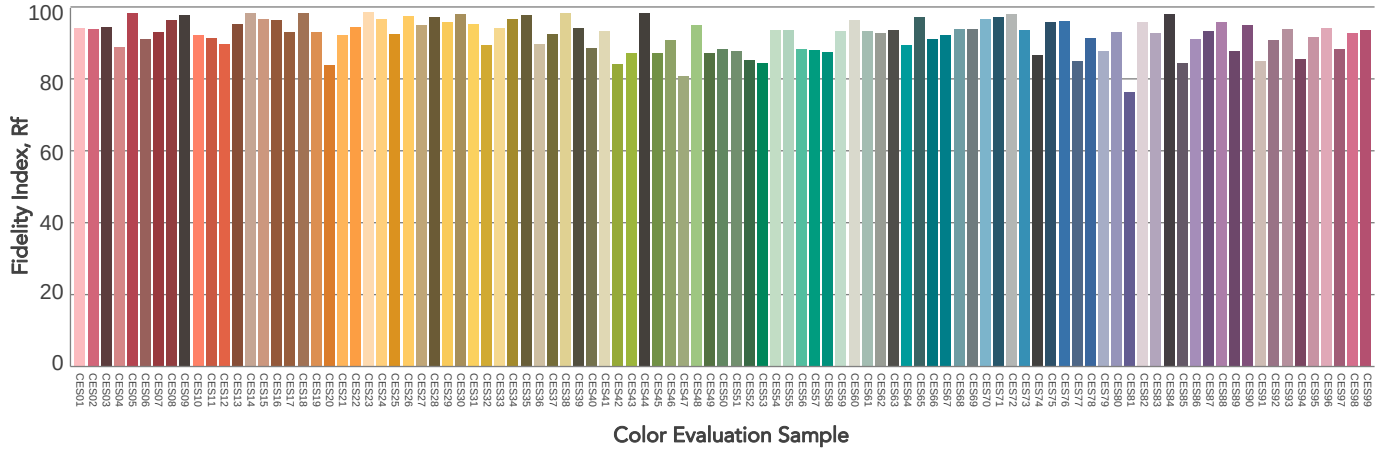












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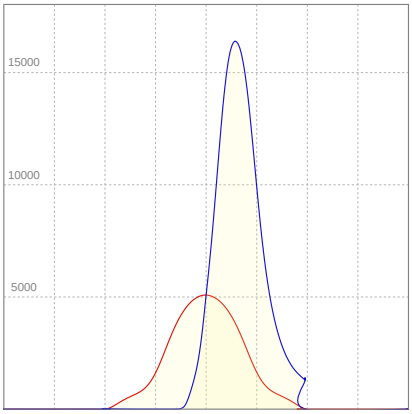
LINEAR DISTRIBUTION DIAGRAM

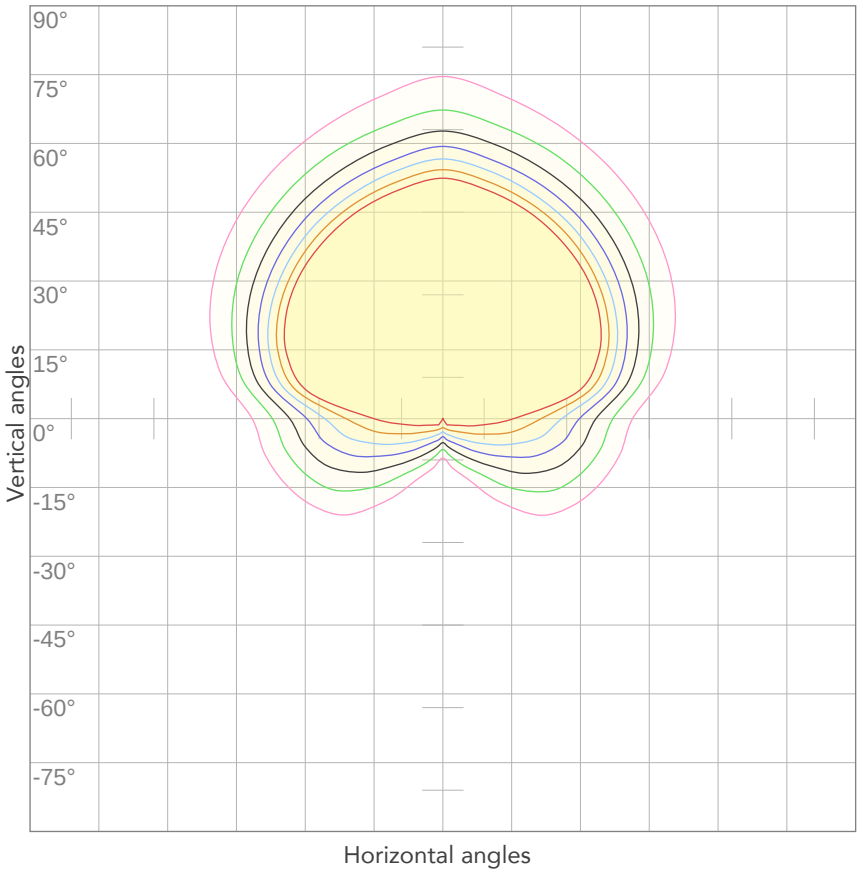


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,986A	188,3W	77lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



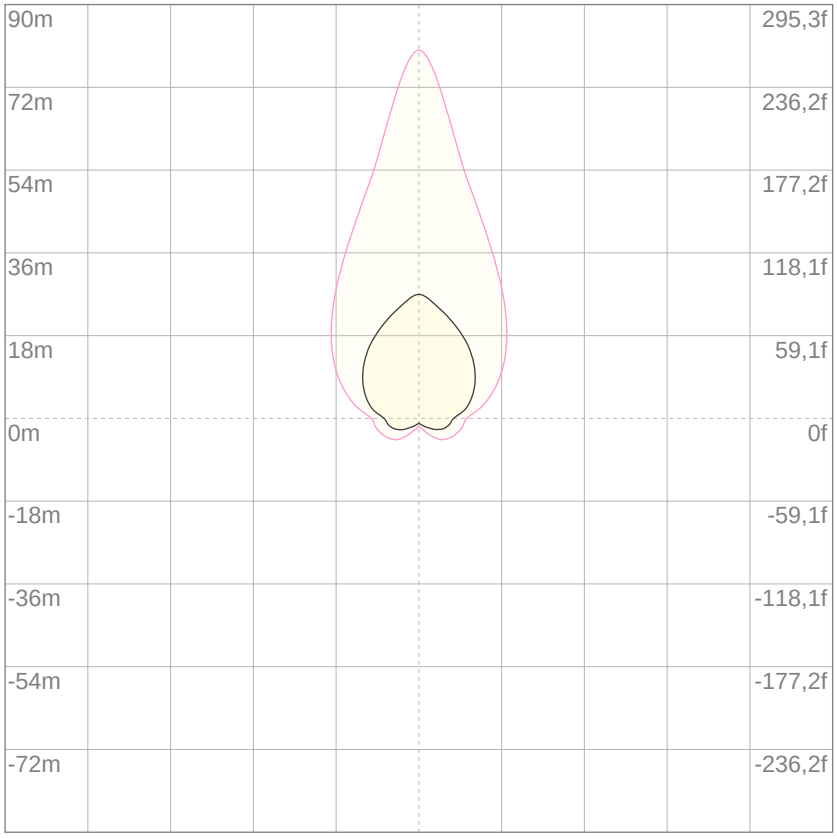
10%	508 cd
20%	1017 cd
30%	1525 cd
40%	2033 cd
50%	2541 cd
60%	3050 cd
70%	3558 cd
80%	4066 cd

Conditions:

Number of c-planes: 4

Candela at center: 5083 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,52 lx
5%	2,54 lx
10%	5,08 lx
30%	15,2 lx
50%	25,4 lx

Conditions:

Number of c-planes: 4

Lux at center: 50,8 lx

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

Total lumen output:

14611 lm

Peak candela output:

16454 cd

Light quality:

CRI: 93,2

Color temperature:

3268 K

PRODUCT NAME:

ECL CYC100

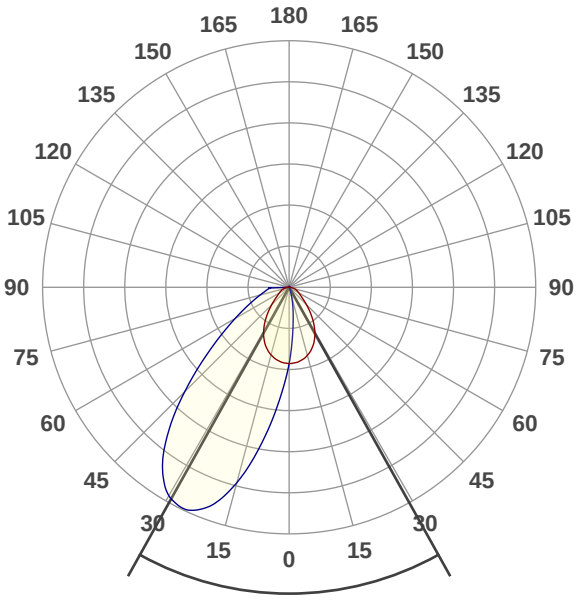
MEASURAMENT CONDITIONS:

Beam angle:
Filter 3060

Target:
3200K

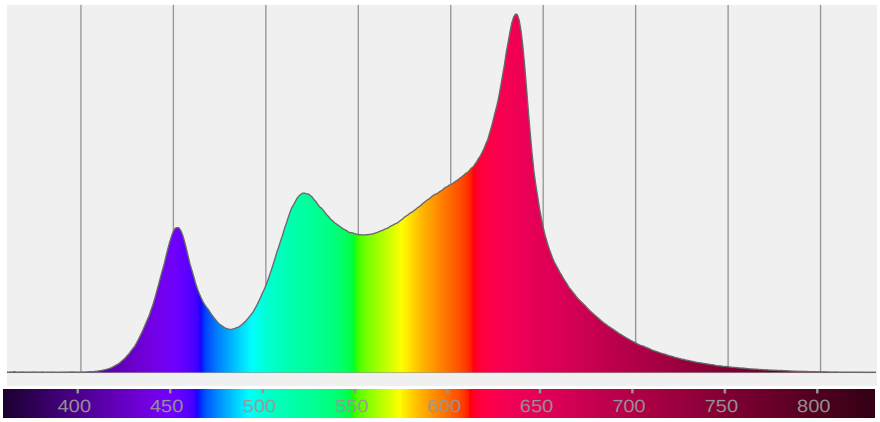
Operator:
Paolo Carvone

Date and time:
23/03/2021 15:05:35

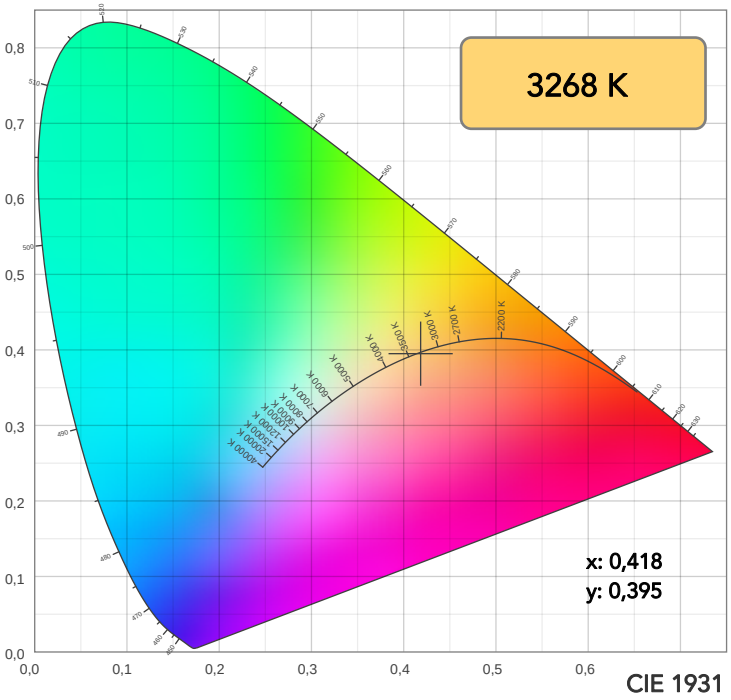


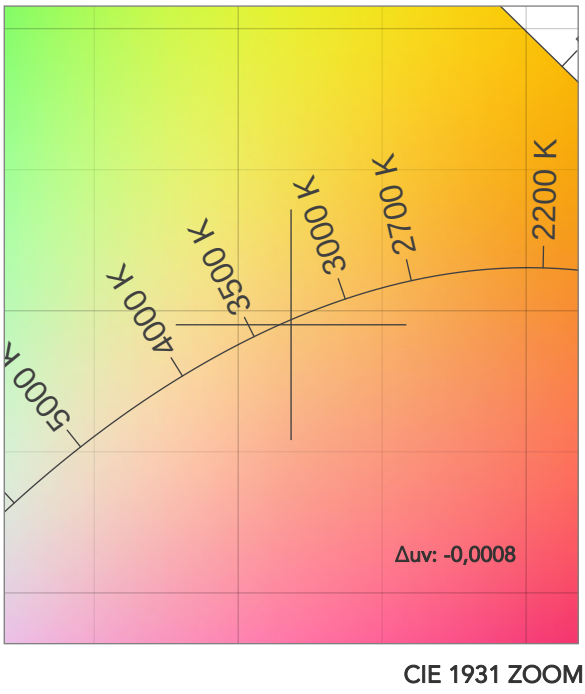
Beam angle 50%: 58,3°
Field angle 10%: 114,7°
Cut off angle 2.5%: 135,3°

Spectra

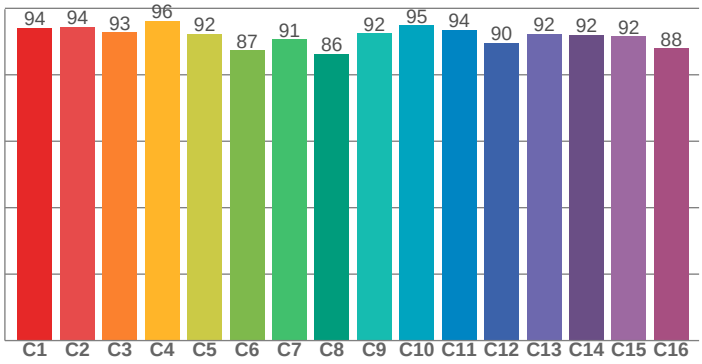


COLOR DETAILS

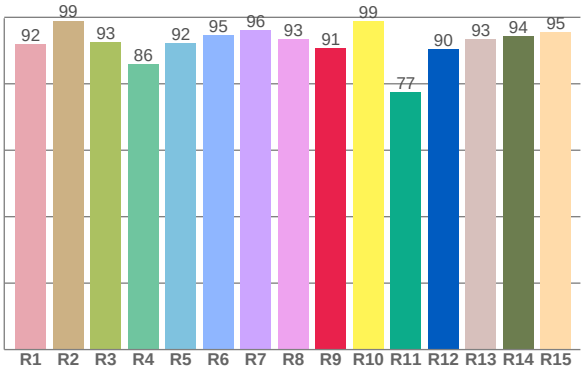




TM30: 92,3



CRI: 93,2 (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
91,8	99,0	92,5	85,8	92,1	94,6	96,2	93,5	90,6	98,8	77,4	90,3	93,4	94,2	95,5

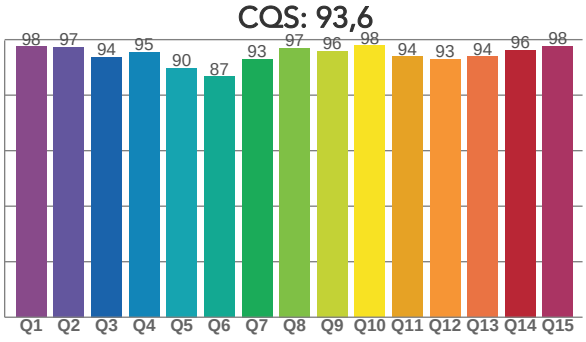
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,2	94,5	92,8	96,2	92,4	87,4	90,6	86,3	92,4	94,8	93,6	89,7	92,3	92,0	91,5	87,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,5	97,4	93,7	95,5	89,8	86,7	93,1	96,9	95,9	97,8	93,9	93,0	93,9	96,2	97,6

CQS: 93,6



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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3268 K	93,2	90,6	92,3	105,9	93,6	87	0,418	0,395	-0,0008

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TM30 DETAILS

PROLiGHTS

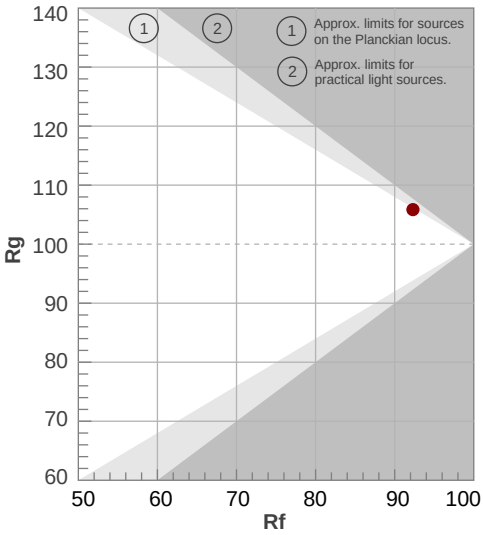
Rf 92,3

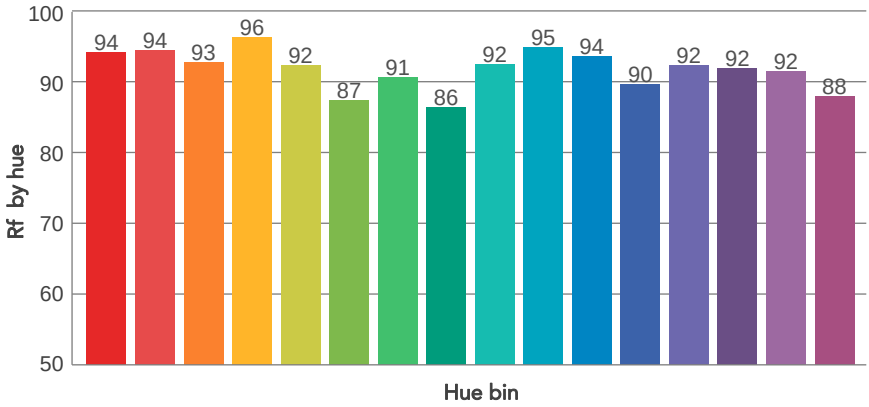
Fidelity index Rf

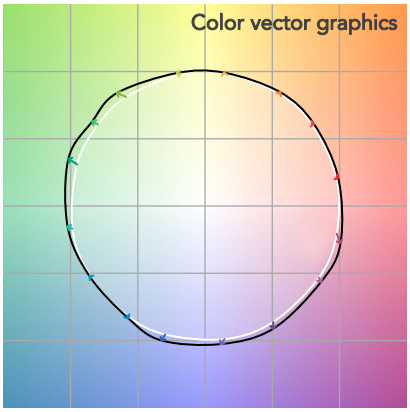
Rg 105,9

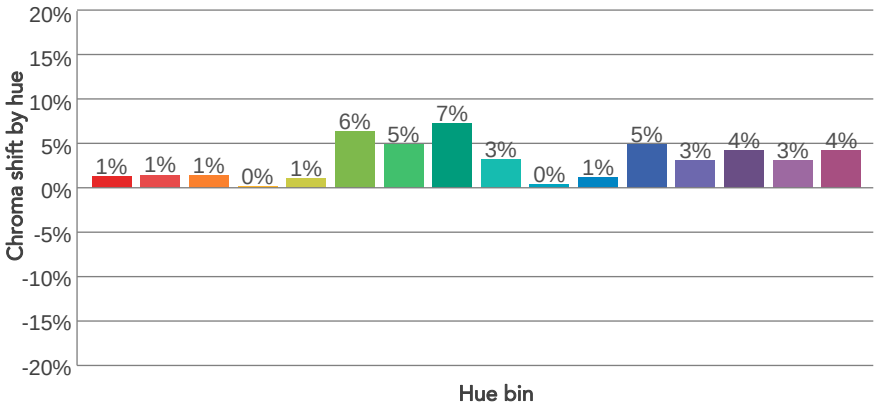
Gammut index

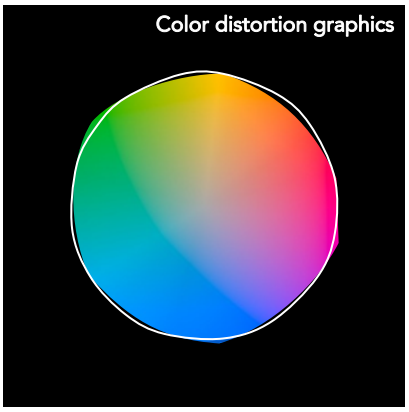
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	94	1%	-1%
2	94	1%	-1%
3	93	1%	0%
4	96	0%	0%
5	92	1%	3%
6	87	6%	4%
7	91	5%	0%
8	86	7%	-3%
9	92	3%	-2%
10	95	0%	-2%
11	94	1%	2%
12	90	5%	-2%
13	92	3%	-4%
14	92	4%	-3%
15	92	3%	-2%
16	88	4%	-6%

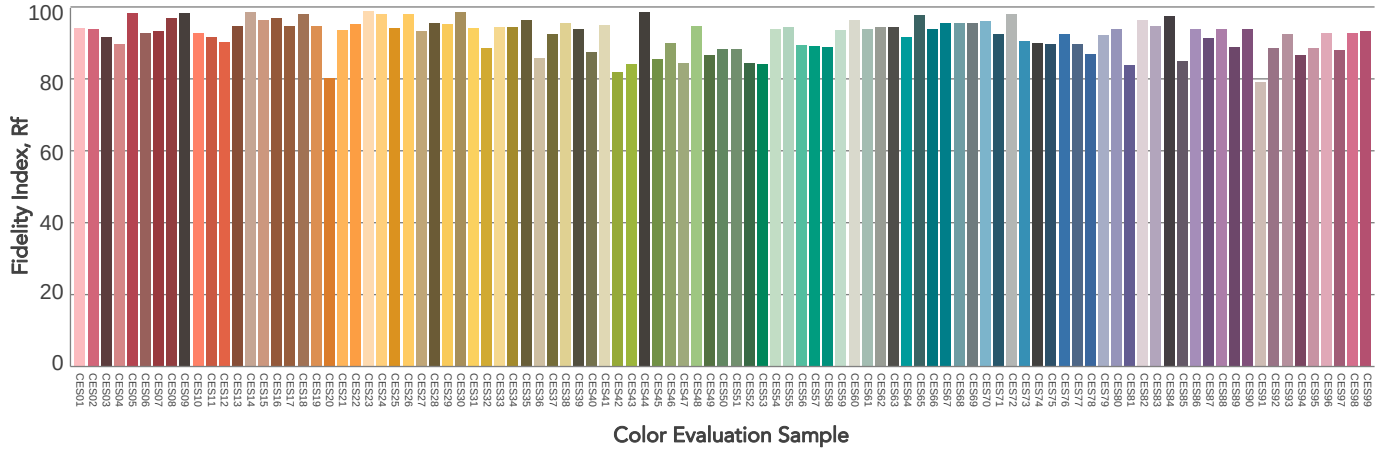












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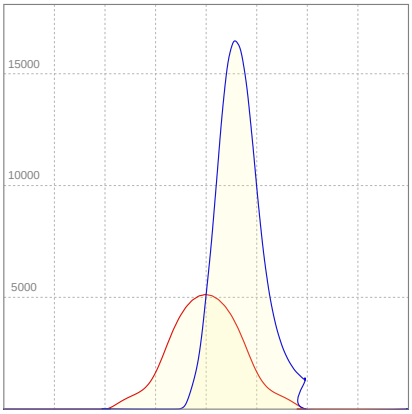
LINEAR DISTRIBUTION DIAGRAM

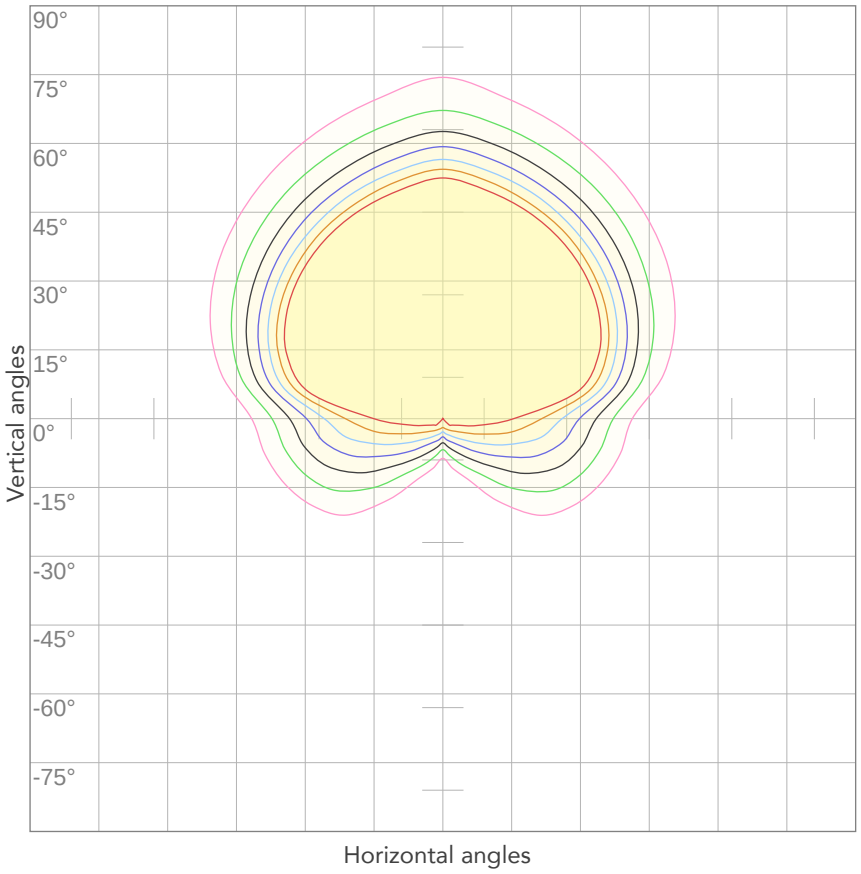


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,994A	189,7W	77lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



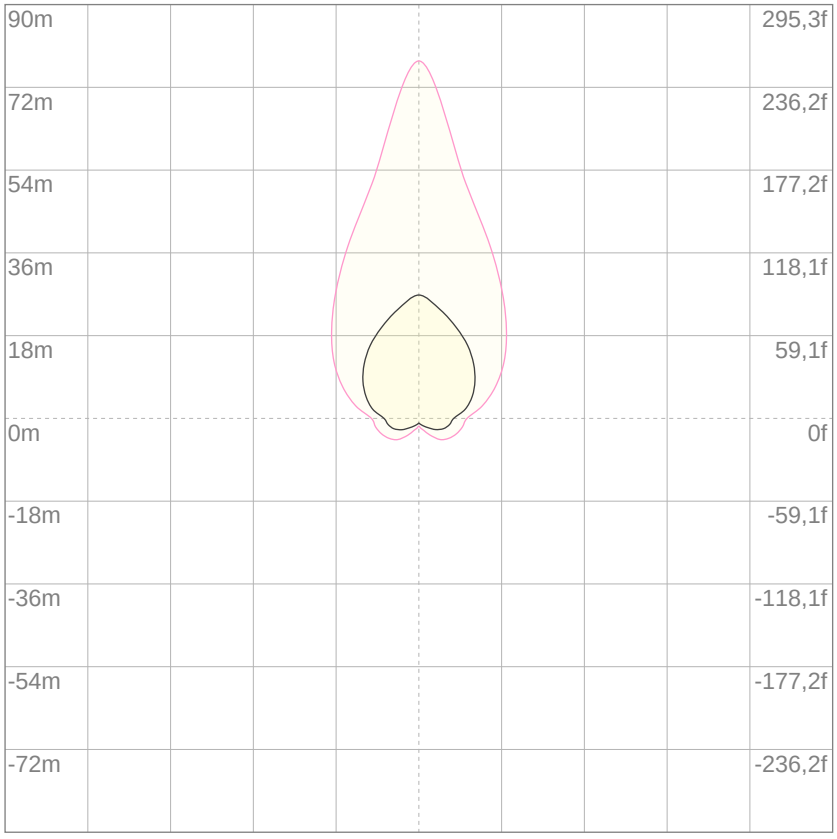
10%	512 cd
20%	1024 cd
30%	1535 cd
40%	2047 cd
50%	2559 cd
60%	3071 cd
70%	3583 cd
80%	4094 cd

Conditions:

Number of c-planes: 4

Candela at center: 5118 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,54 lx
5%	2,56 lx
10%	5,12 lx
30%	15,4 lx
50%	25,6 lx

Conditions:

Number of c-planes: 4

Lux at center: 51,2 lx

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

Total lumen output:

15140 lm

Peak candela output:

17009 cd

Light quality:

CRI: 93,4

Color temperature:

4134 K

PRODUCT NAME:

ECL CYC100

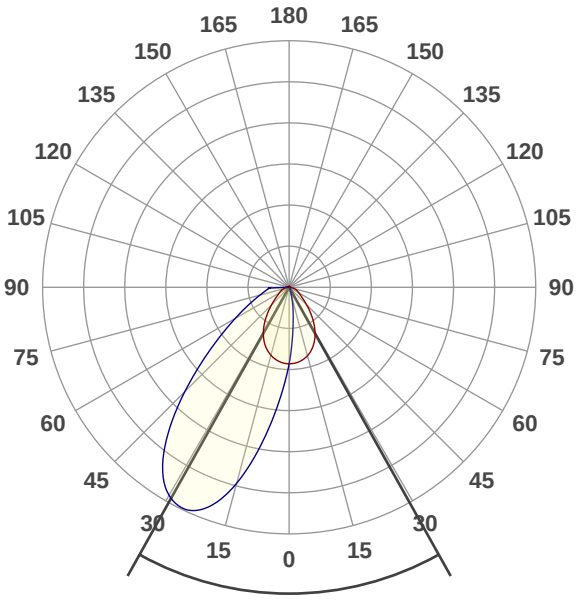
MEASURAMENT CONDITIONS:

Beam angle:
Filter 3060

Target:
4000K

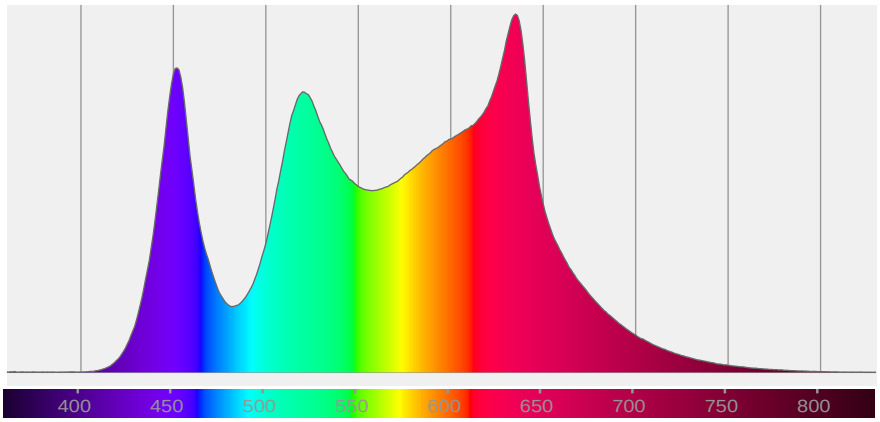
Operator:
Paolo Carvone

Date and time:
23/03/2021 15:08:29

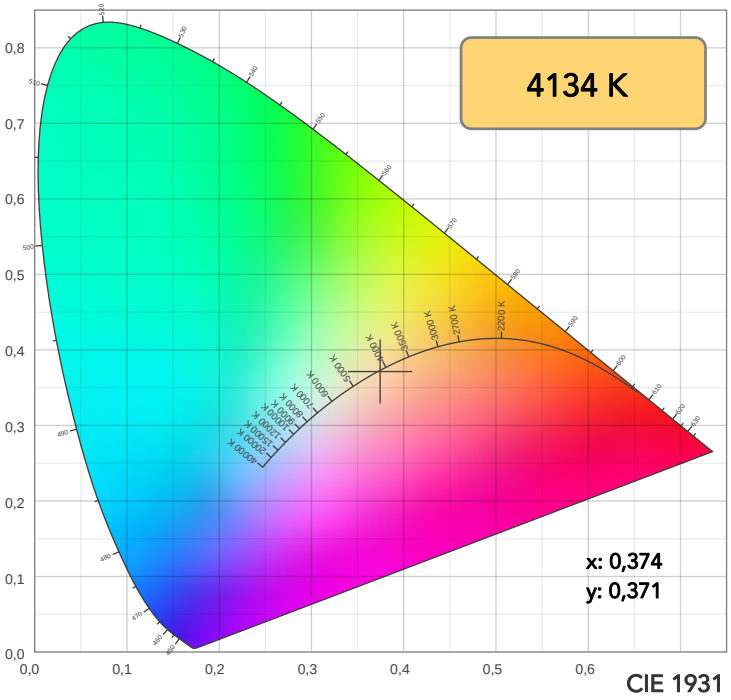


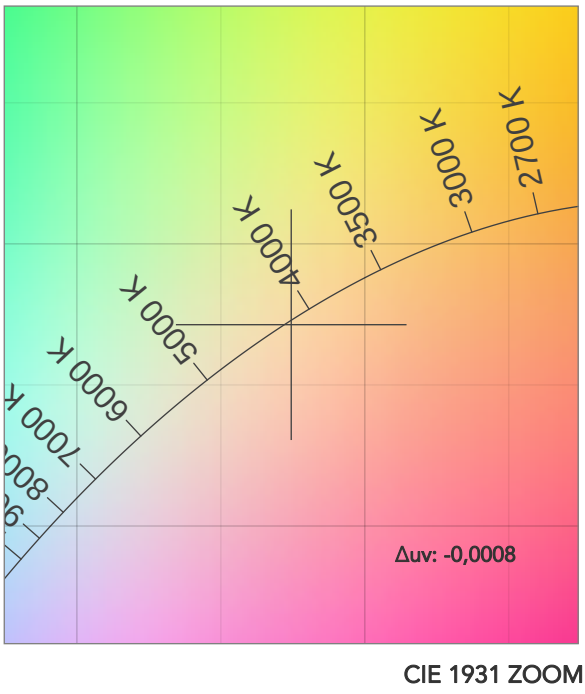
Beam angle 50%: 58,5°
Field angle 10%: 114,9°
Cut off angle 2.5%: 135,3°

Spectra

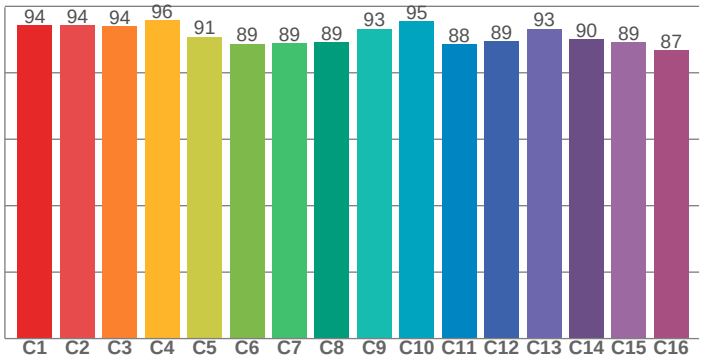


COLOR DETAILS

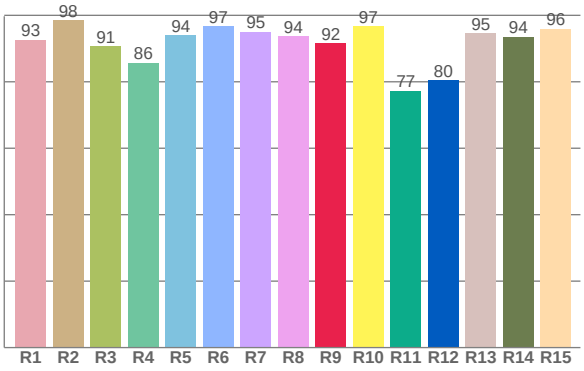




TM30: 91,7



CRI: 93,4 (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
92,7	98,4	90,7	85,7	94,0	96,6	95,0	93,8	91,6	96,7	77,3	80,5	94,5	93,6	95,9

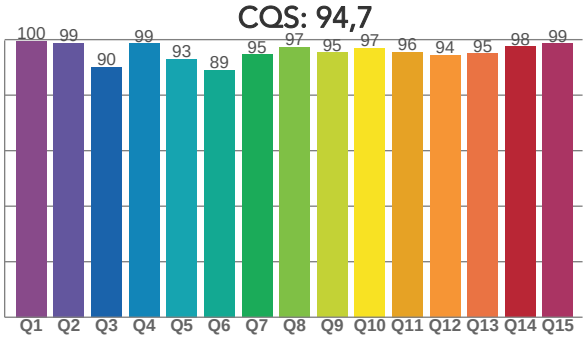
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,3	94,3	93,9	95,8	90,8	88,7	88,8	89,1	93,2	95,5	88,5	89,4	93,2	90,1	89,2	86,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
99,5	98,9	90,0	98,6	93,0	89,1	94,6	97,3	95,3	97,0	95,6	94,4	95,0	97,6	98,6

CQS: 94,7



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4134 K	93,4	91,6	91,7	105,5	94,7	86	0,374	0,371	-0,0008

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TM30 DETAILS

PROLiGHTS

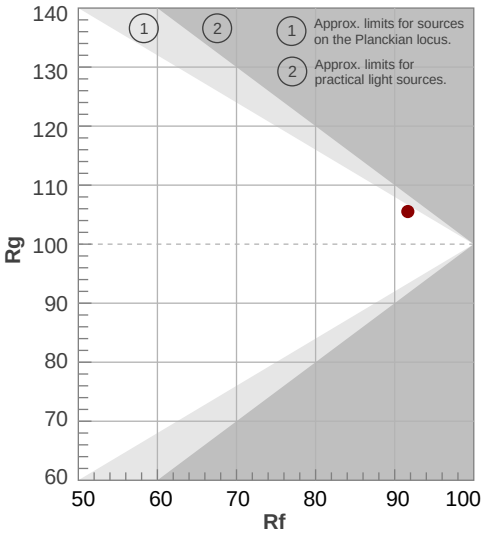
Rf 91,7

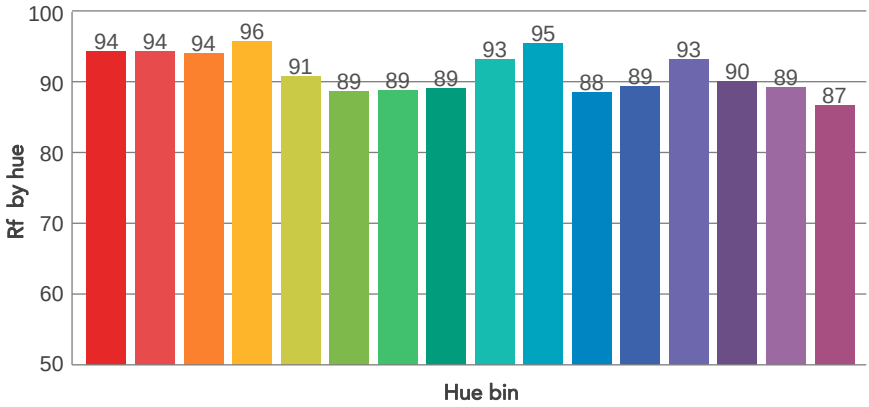
Fidelity index Rf

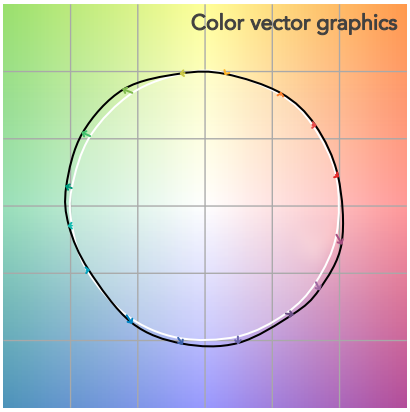
Rg 105,5

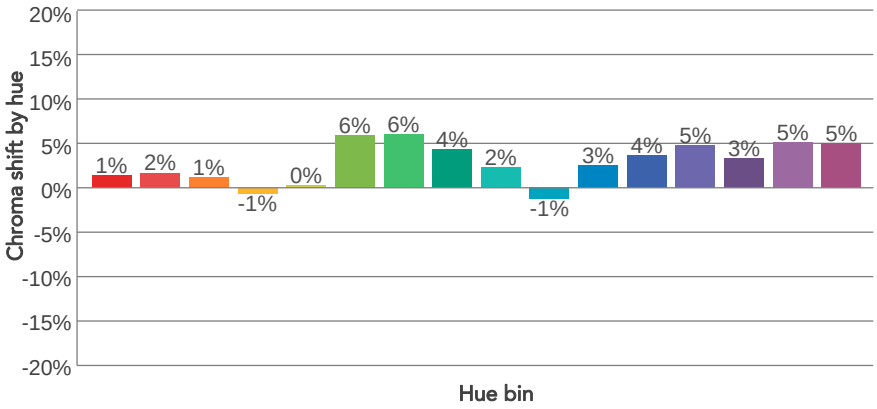
Gammut index

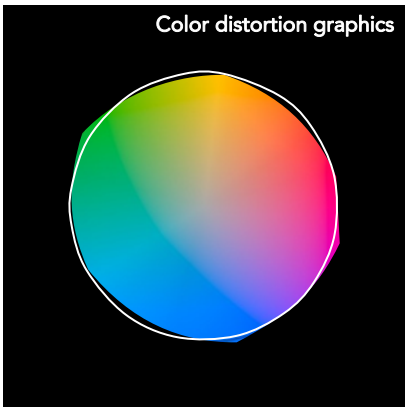
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	94	1%	-1%
2	94	2%	-1%
3	94	1%	0%
4	96	-1%	0%
5	91	0%	3%
6	89	6%	4%
7	89	6%	1%
8	89	4%	-1%
9	93	2%	0%
10	95	-1%	1%
11	88	3%	6%
12	89	4%	4%
13	93	5%	-1%
14	90	3%	4%
15	89	5%	-3%
16	87	5%	-6%

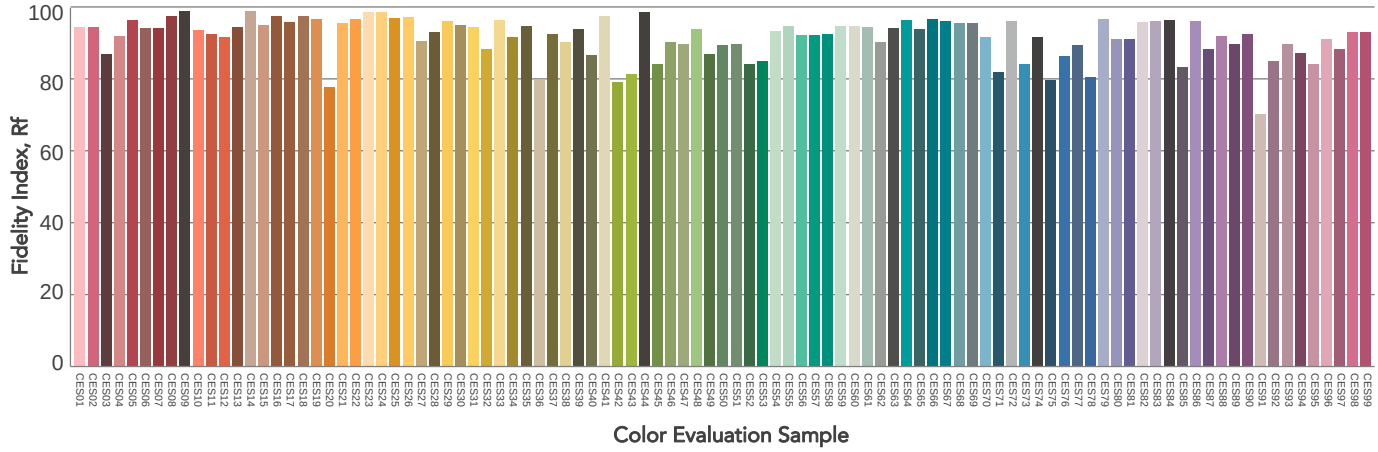












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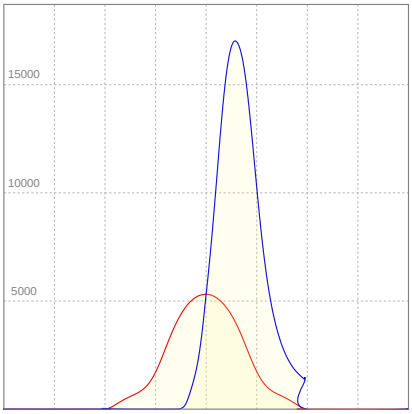
LINEAR DISTRIBUTION DIAGRAM

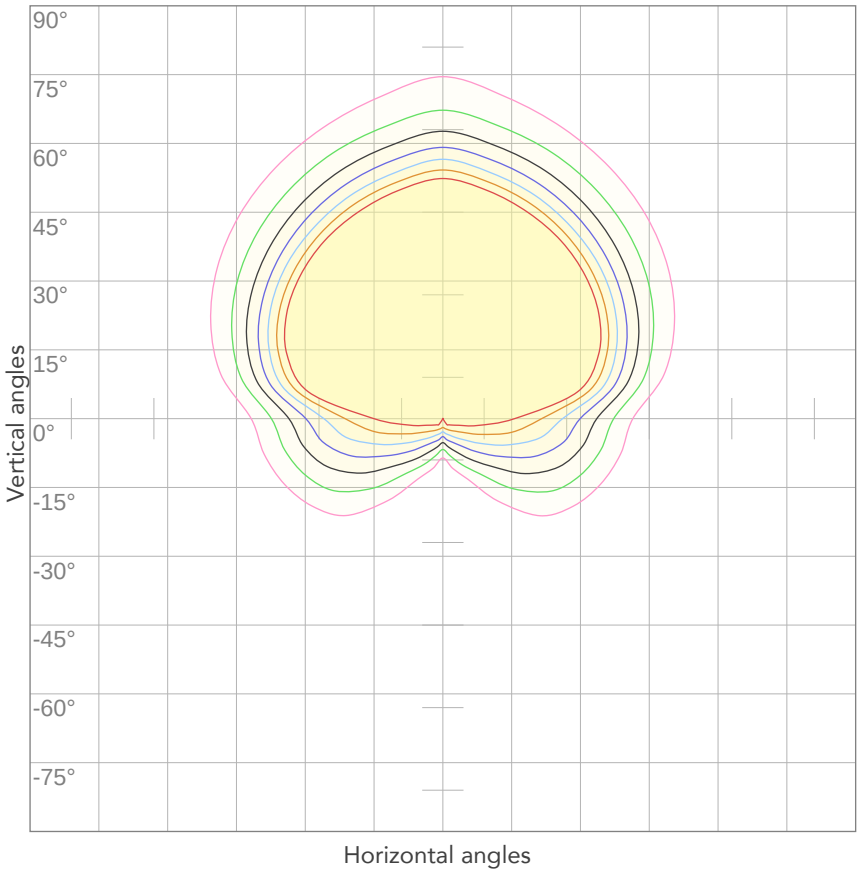


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	1,04A	199,6W	76lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



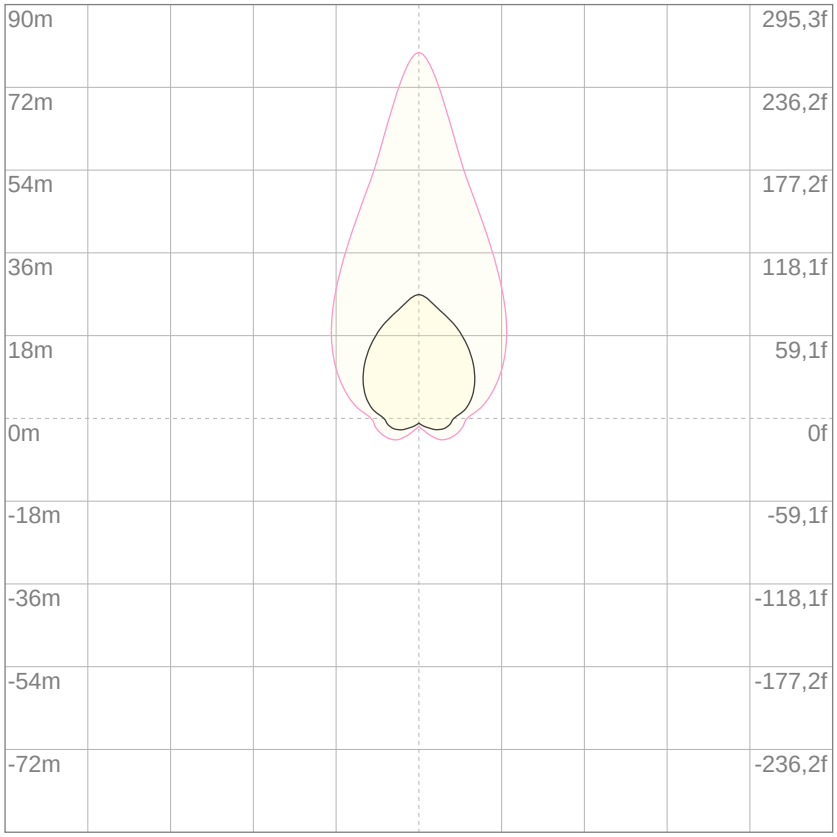
10%	531 cd
20%	1062 cd
30%	1592 cd
40%	2123 cd
50%	2654 cd
60%	3185 cd
70%	3716 cd
80%	4247 cd

Conditions:

Number of c-planes: 4

Candela at center: 5308 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,59 lx
5%	2,65 lx
10%	5,31 lx
30%	15,9 lx
50%	26,5 lx

Conditions:

Number of c-planes: 4

Lux at center: 53,1 lx

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

Total lumen output:

15881 lm

Peak candela output:

17769 cd

Light quality:

CRI: 92,3

Color temperature:

6044 K

PRODUCT NAME:

ECL CYC100

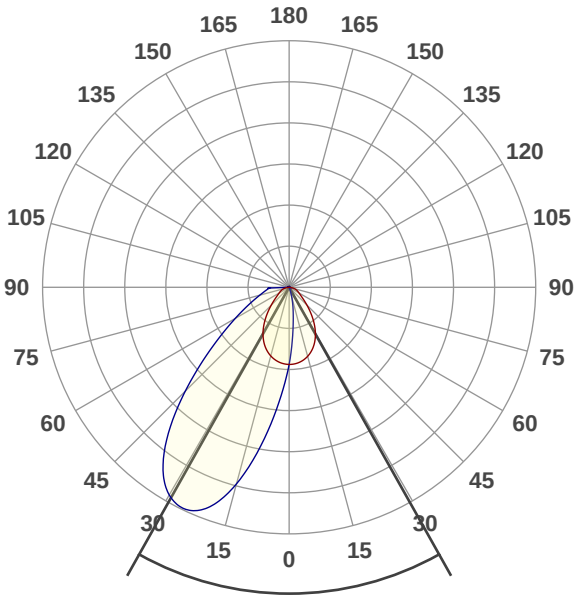
MEASURAMENT CONDITIONS:

Beam angle:
Filter 3060

Target:
5600K

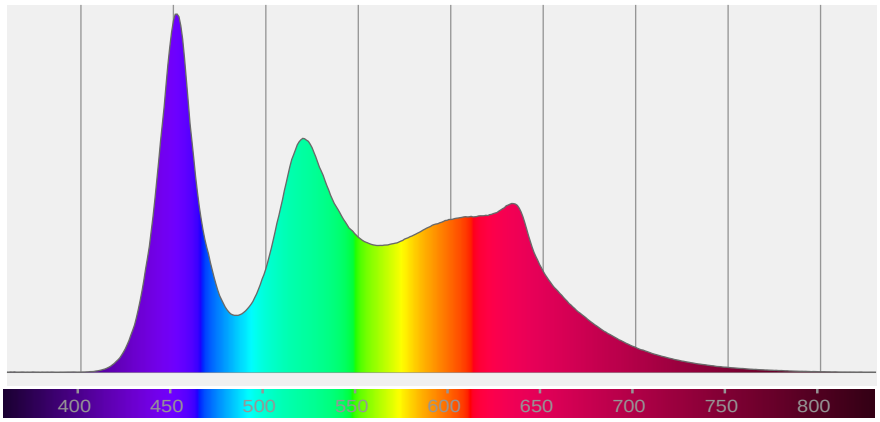
Operator:
Paolo Carvone

Date and time:
23/03/2021 15:10:52

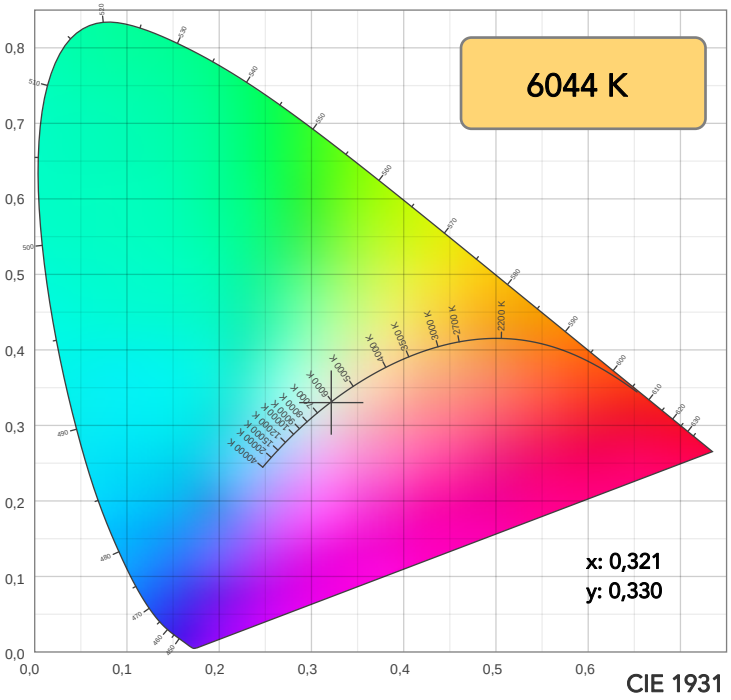


Beam angle 50%: 58,6°
Field angle 10%: 115,3°
Cut off angle 2.5%: 135,5°

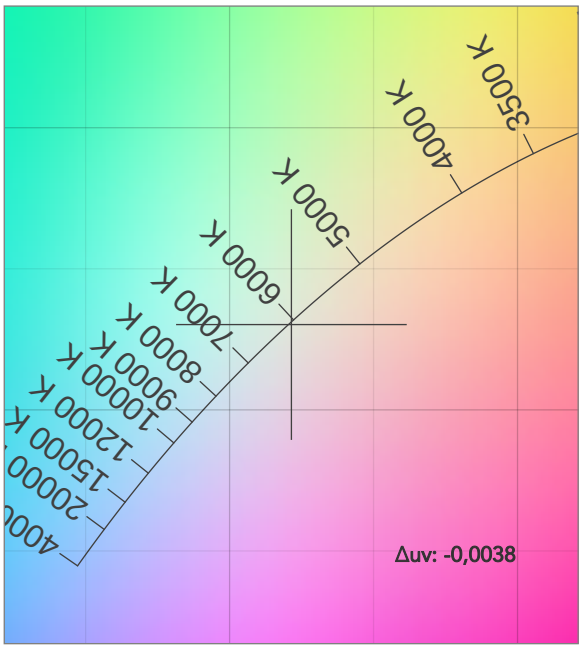
Spectra



COLOR DETAILS

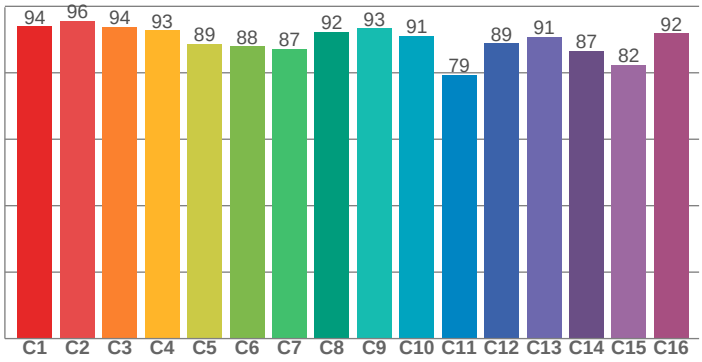


CIE 1931

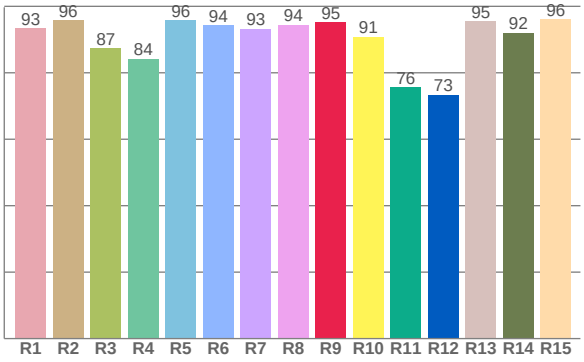


CIE 1931 ZOOM

TM30: 89,7



CRI: 92,3 (R1-R8)



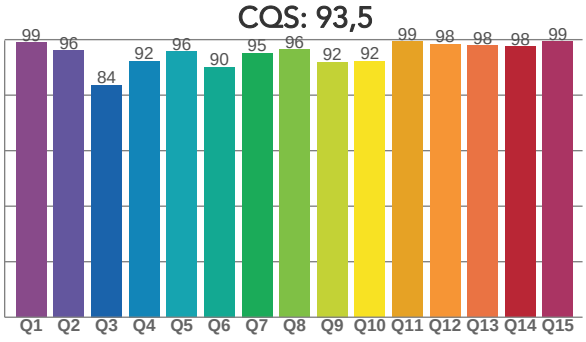
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,4	95,8	87,4	84,2	95,8	94,4	93,2	94,5	95,2	90,8	75,6	73,4	95,5	92,0	96,1

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,0	95,7	93,9	92,7	88,8	87,9	87,2	92,2	93,4	91,1	79,4	88,8	90,8	86,6	82,5	91,8

CQS: 93,5



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,9	96,1	83,6	92,3	95,7	90,2	95,1	96,4	91,9	92,2	99,3	98,4	97,9	97,5	99,3

COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6044 K	92,3	95,2	89,7	106,3	93,5	90	0,321	0,330	-0,0038

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TM30 DETAILS

PROLiGHTS

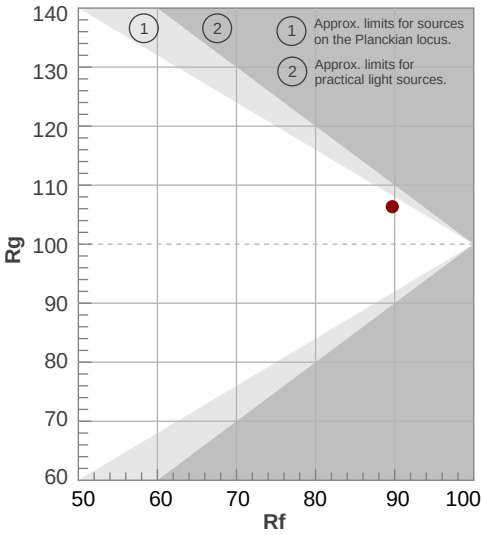
Rf 89,7

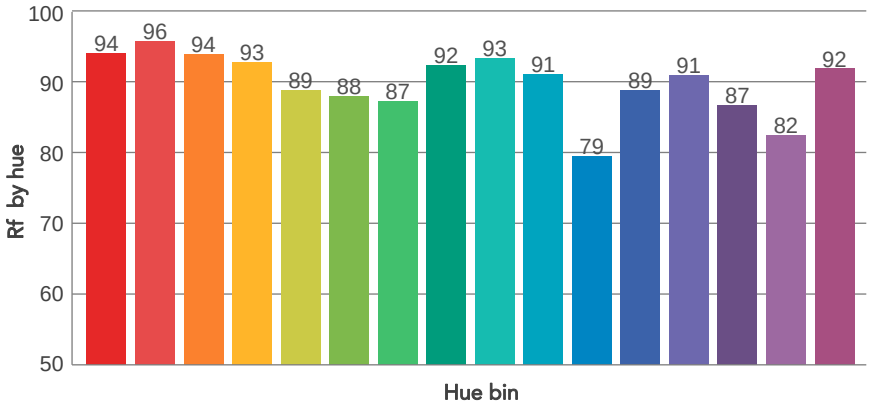
Fidelity index Rf

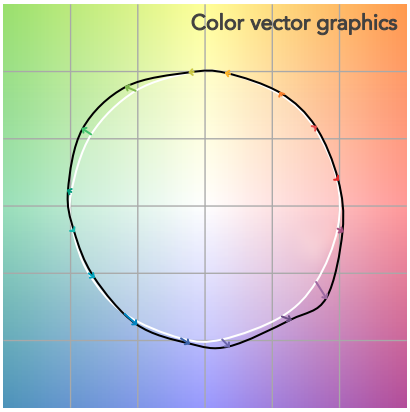
Rg 106,3

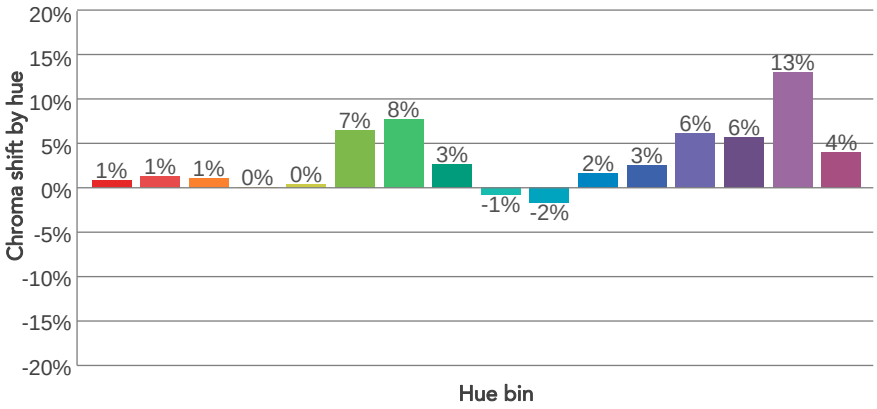
Gammut index

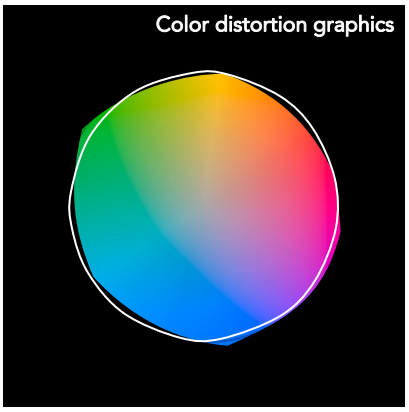
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	94	1%	-1%
2	96	1%	0%
3	94	1%	2%
4	93	0%	3%
5	89	0%	3%
6	88	7%	4%
7	87	8%	0%
8	92	3%	-1%
9	93	-1%	1%
10	91	-2%	4%
11	79	2%	11%
12	89	3%	6%
13	91	6%	4%
14	87	6%	4%
15	82	13%	-6%
16	92	4%	-1%

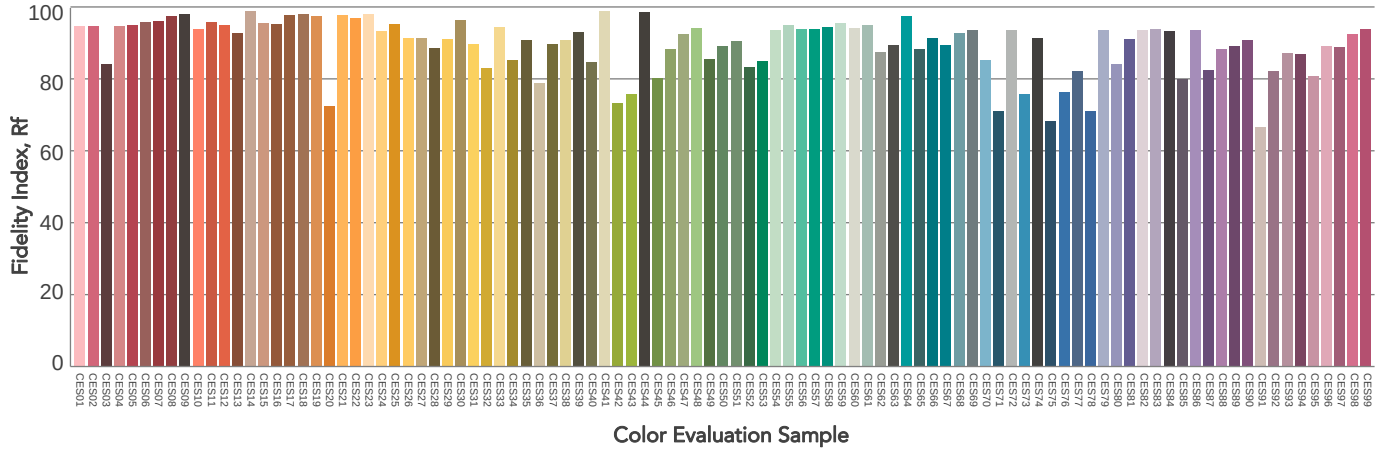












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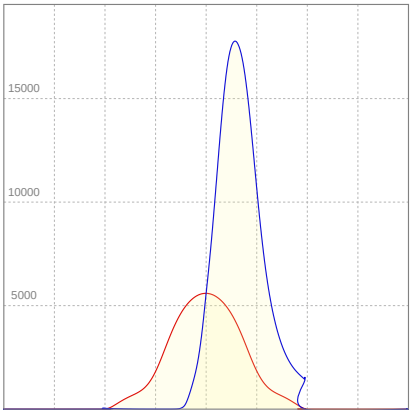
LINEAR DISTRIBUTION DIAGRAM

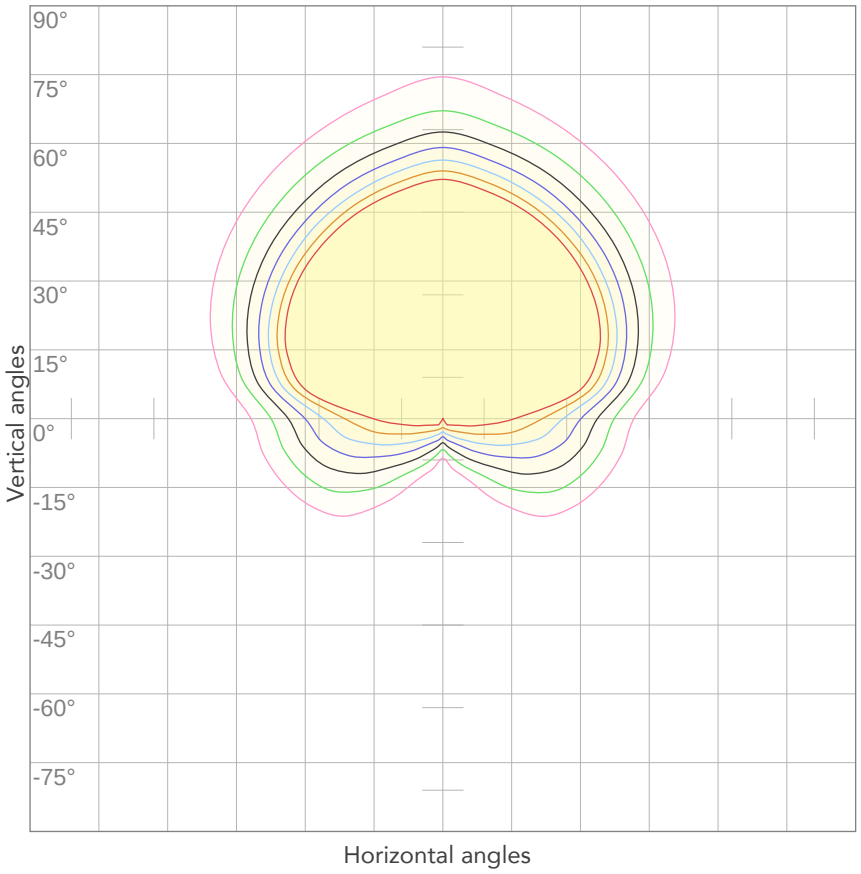


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	1,10A	216,6W	73lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



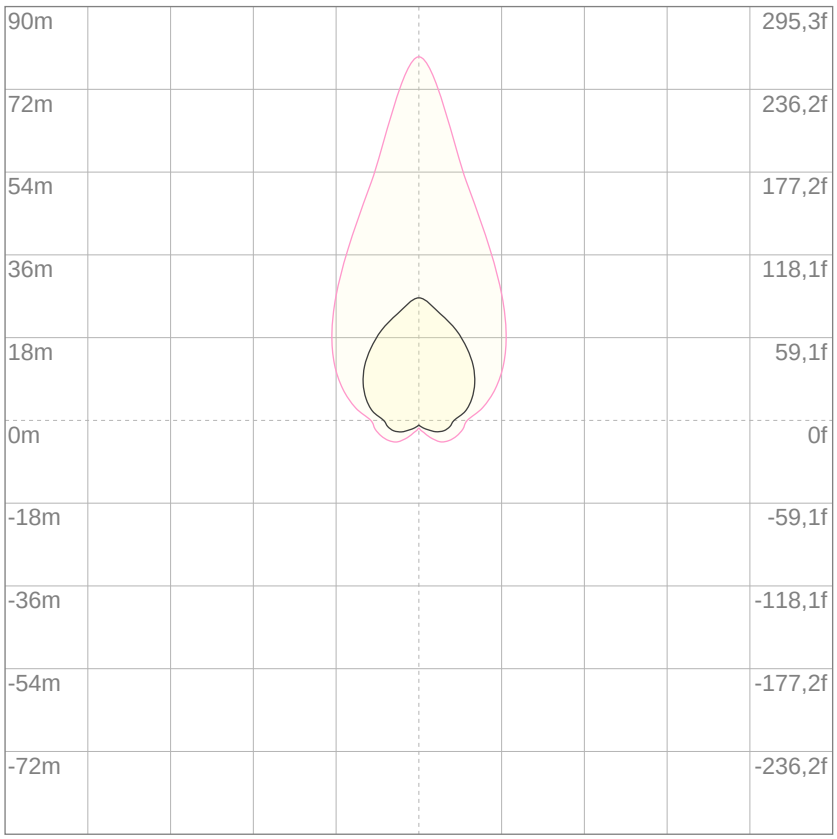
10%	559 cd
20%	1118 cd
30%	1678 cd
40%	2237 cd
50%	2796 cd
60%	3355 cd
70%	3914 cd
80%	4474 cd

Conditions:

Number of c-planes: 4

Candela at center: 5592 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,68 lx
5%	2,80 lx
10%	5,59 lx
30%	16,8 lx
50%	28,0 lx

Conditions:

Number of c-planes: 4

Lux at center: 55,9 lx

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

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Total lumen output:

15921 lm

Peak candela output:

17819 cd

Light quality:

CRI: 92,4

Color temperature:

6558 K

PRODUCT NAME:

ECL CYC100

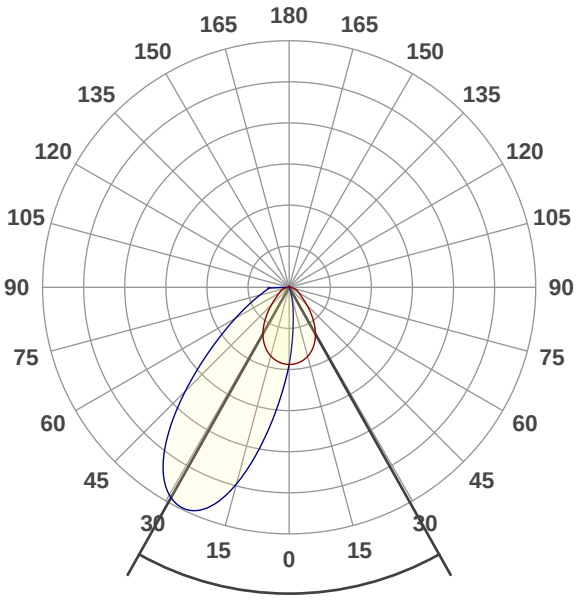
MEASURAMENT CONDITIONS:

Beam angle:
Filter 3060

Target:
6000K

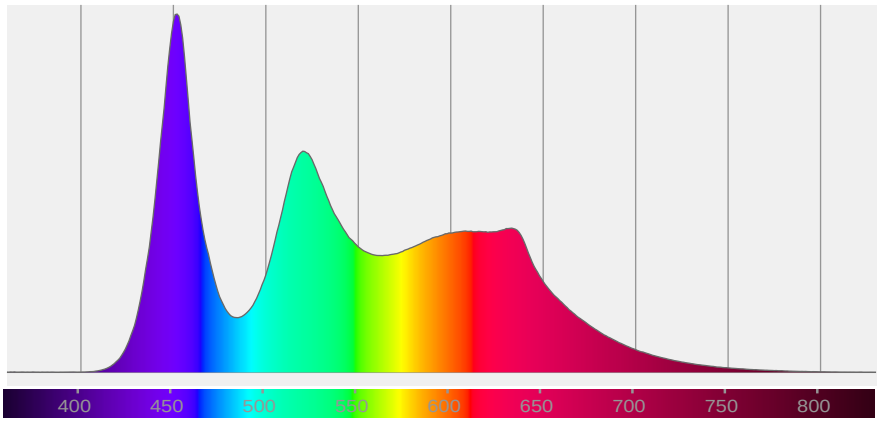
Operator:
Paolo Carvone

Date and time:
23/03/2021 15:13:26

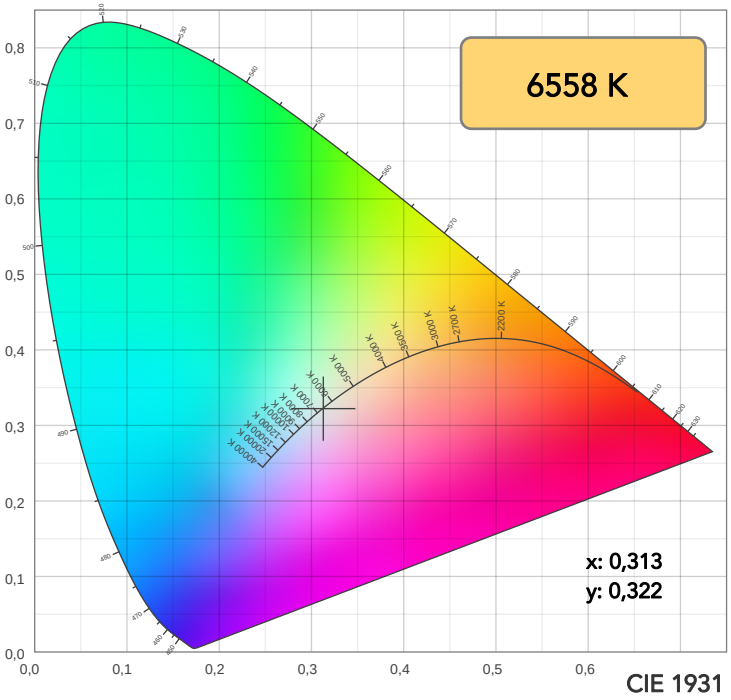


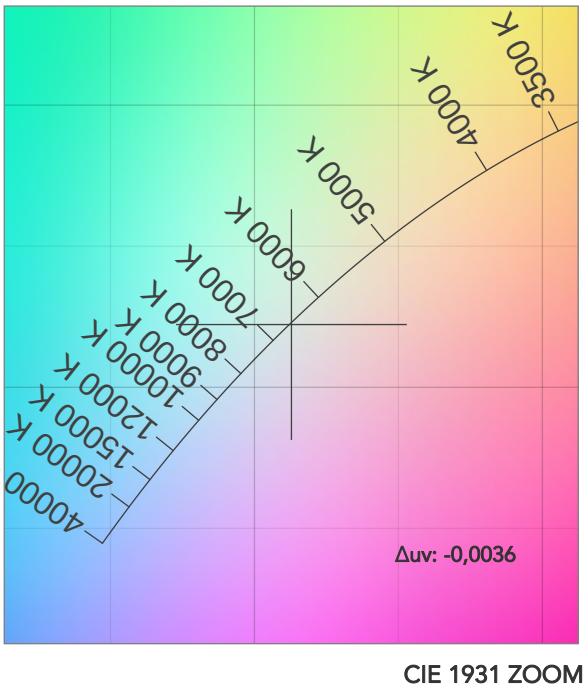
Beam angle 50%: 58,6°
Field angle 10%: 115,3°
Cut off angle 2.5%: 135,5°

Spectra

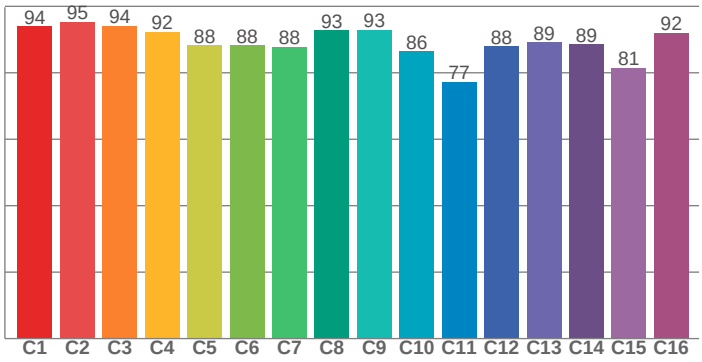


COLOR DETAILS

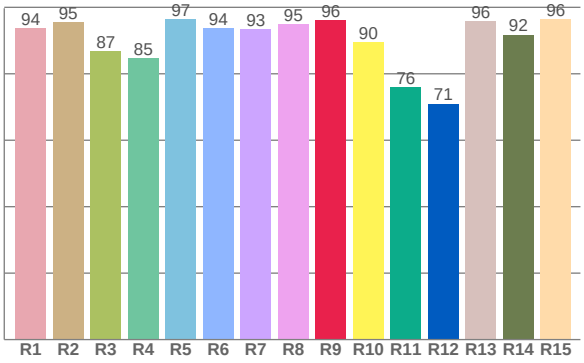




TM30: 89,3



CRI: 92,4 (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
93,8	95,4	86,7	84,6	96,5	93,7	93,3	94,9	96,1	89,6	75,9	70,9	95,8	91,8	96,4

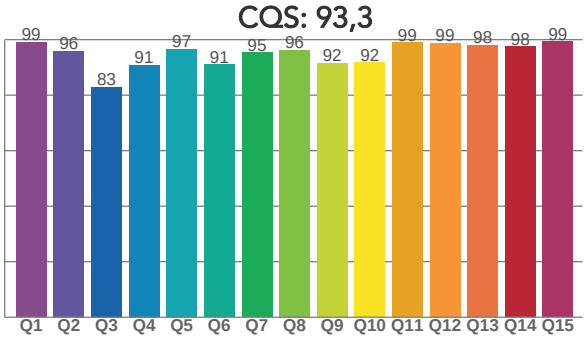
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,9	95,4	94,2	92,3	88,2	88,3	87,8	92,7	92,9	86,5	77,3	88,0	89,1	88,6	81,5	92,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
99,0	96,0	82,9	90,8	96,6	91,0	95,4	96,3	91,5	91,7	98,9	98,8	98,0	97,5	99,3

CQS: 93,3



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6558 K	92,4	96,1	89,3	105,5	93,3	90	0,313	0,322	-0,0036

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TM30 DETAILS

PROLiGHTS

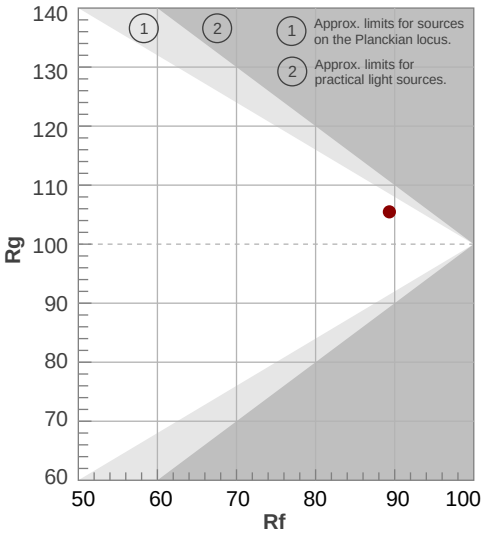
Rf 89,3

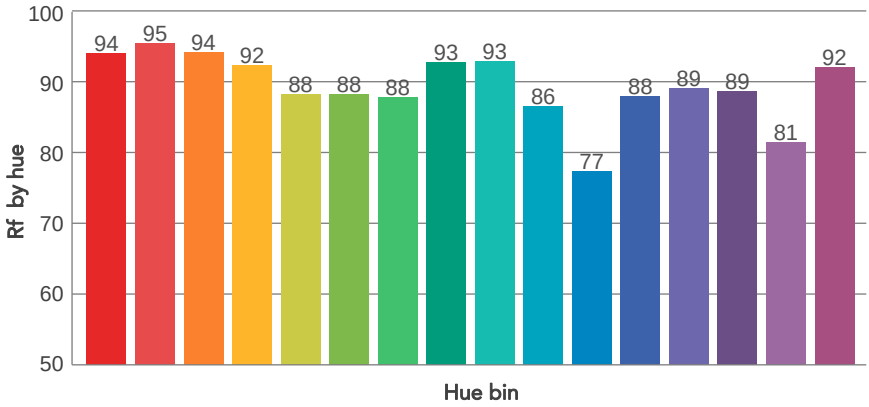
Fidelity index Rf

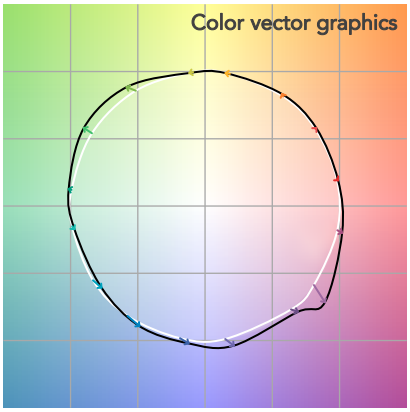
Rg 105,5

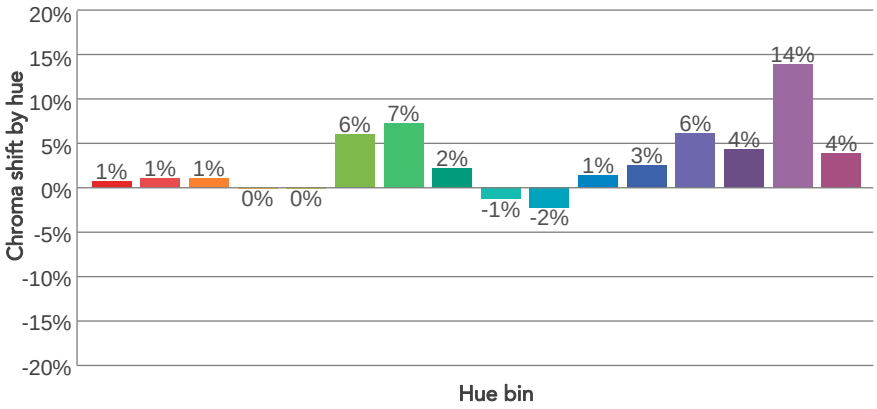
Gammut index

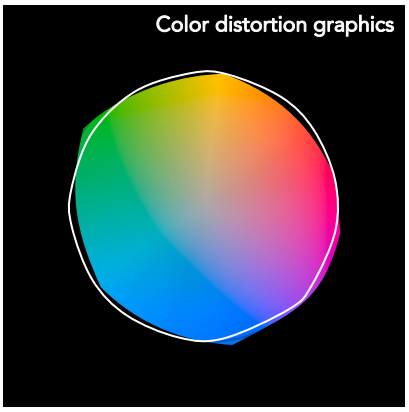
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	94	1%	-1%
2	95	1%	0%
3	94	1%	2%
4	92	0%	3%
5	88	0%	3%
6	88	6%	4%
7	88	7%	0%
8	93	2%	0%
9	93	-1%	2%
10	86	-2%	8%
11	77	1%	11%
12	88	3%	7%
13	89	6%	5%
14	89	4%	3%
15	81	14%	-6%
16	92	4%	-1%

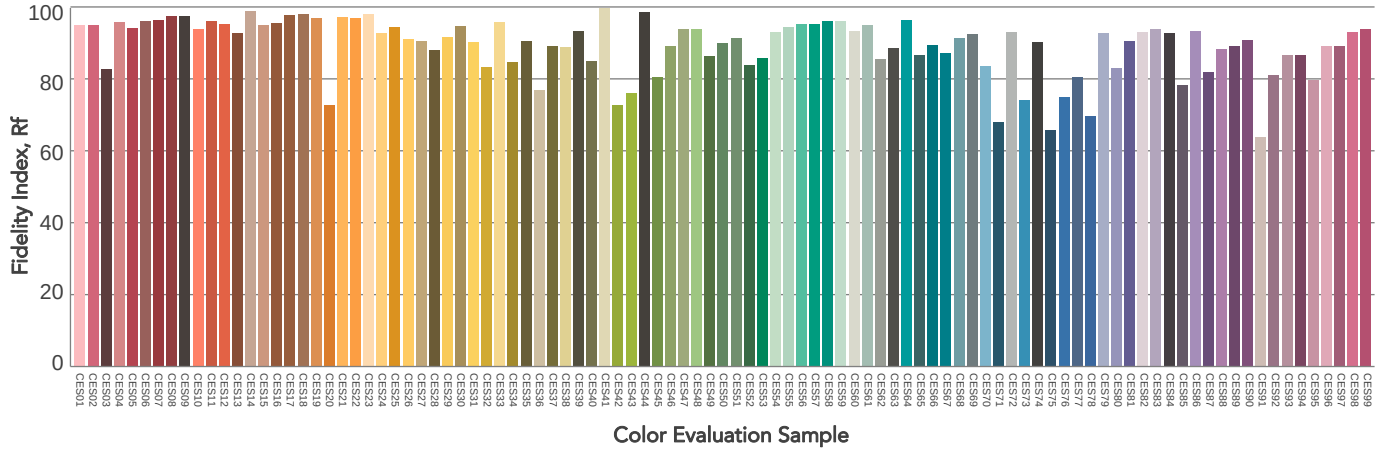












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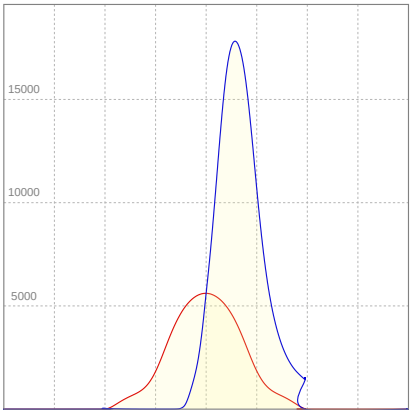
LINEAR DISTRIBUTION DIAGRAM

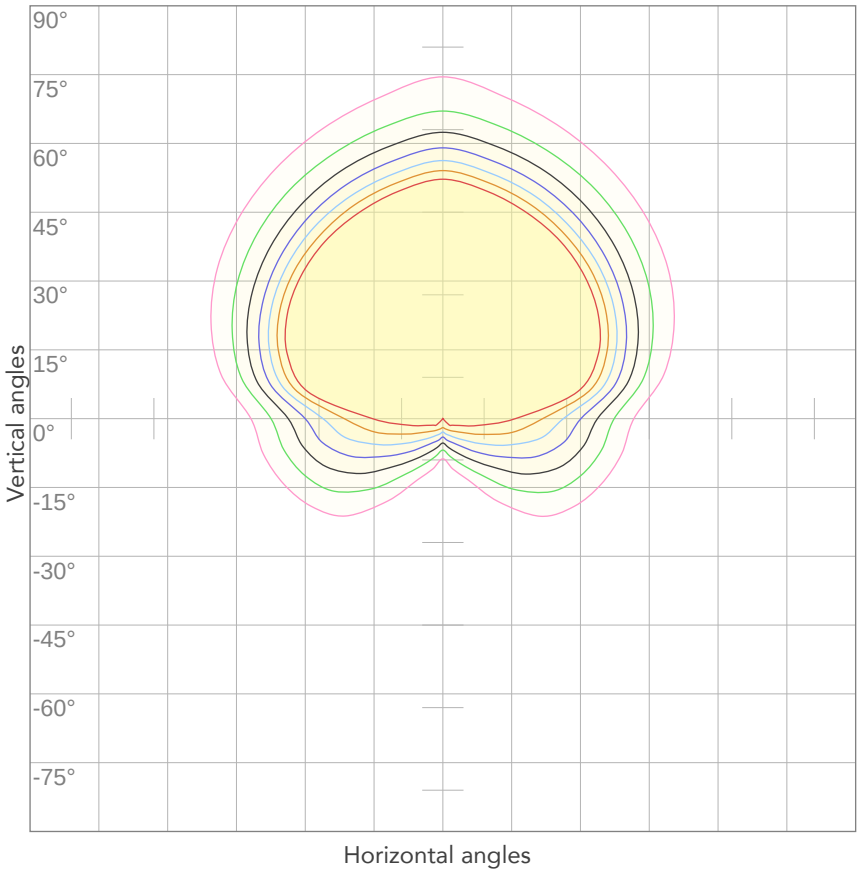


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	1,11A	219,2W	73lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



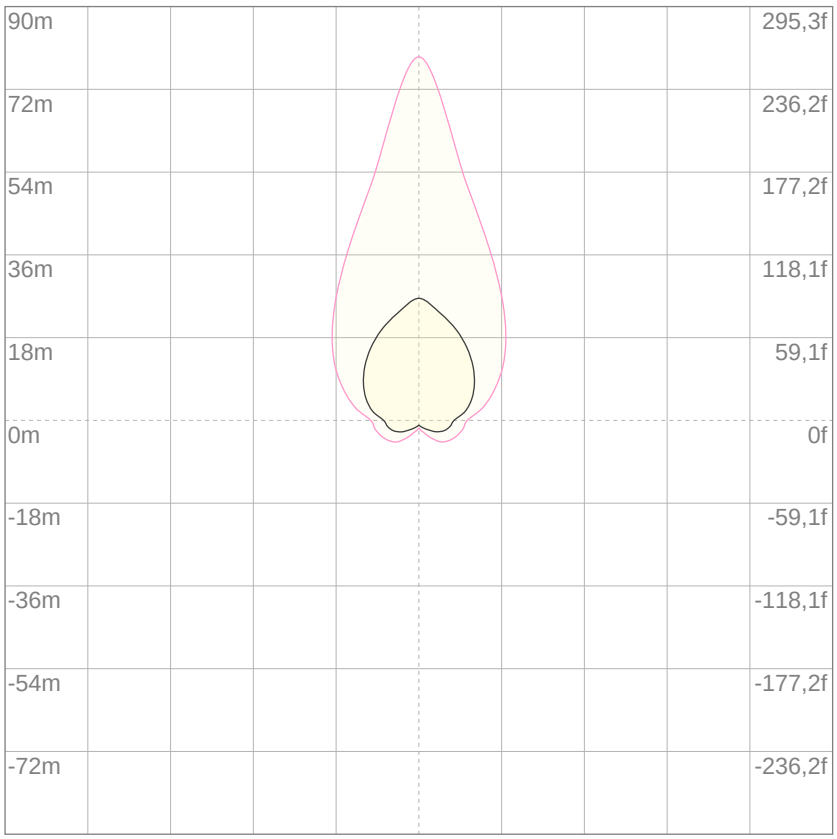
10%	561 cd
20%	1122 cd
30%	1682 cd
40%	2243 cd
50%	2804 cd
60%	3365 cd
70%	3925 cd
80%	4486 cd

Conditions:

Number of c-planes: 4

Candela at center: 5608 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,68 lx
5%	2,80 lx
10%	5,61 lx
30%	16,8 lx
50%	28,0 lx

Conditions:

Number of c-planes: 4

Lux at center: 56,1 lx

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

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