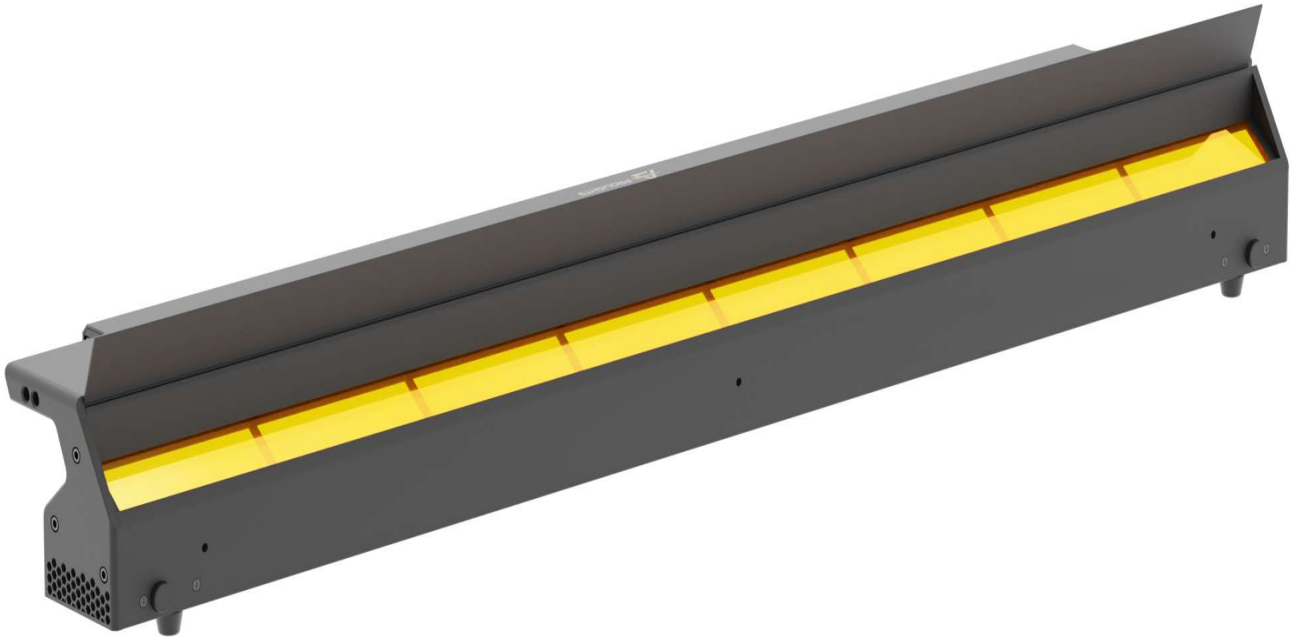
Photometric Test Report



ECLCYC100

330W RGB+W LED cyclorama projector

(filter 10°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:

25410 lm

Peak candela output:

32092 cd

PRODUCT NAME:

ECL CYC100

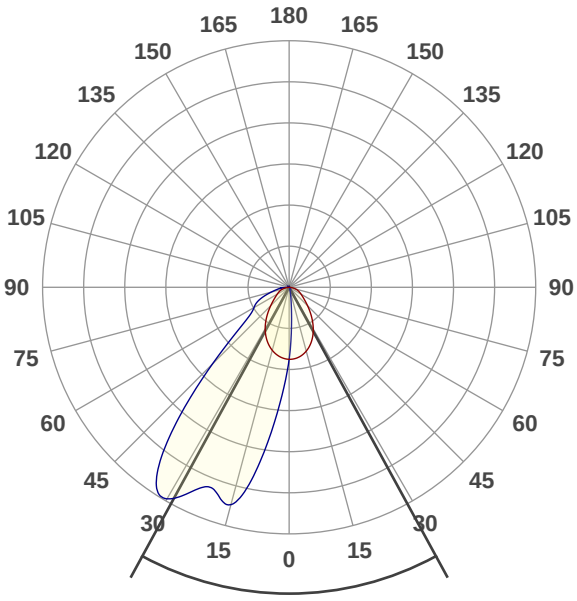
MEASURAMENT CONDITIONS:

Beam angle:
Filter 1060

Target:
Full On Not Calibrated

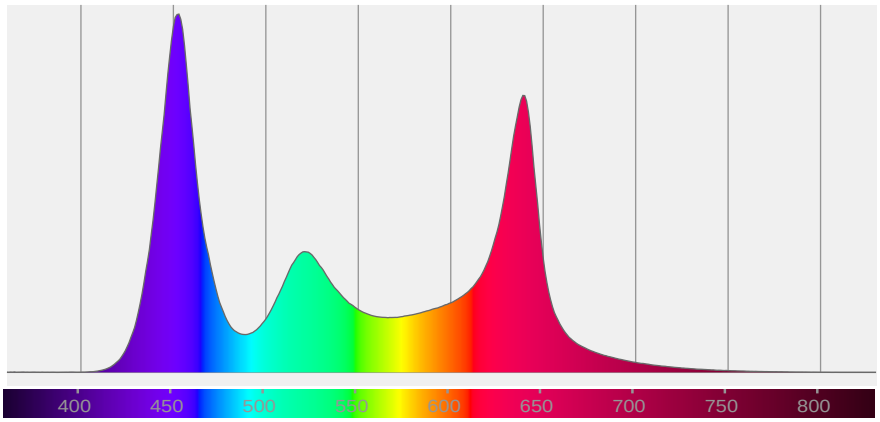
Operator:
Paolo Carvone

Date and time:
23/03/2021 13:11:35

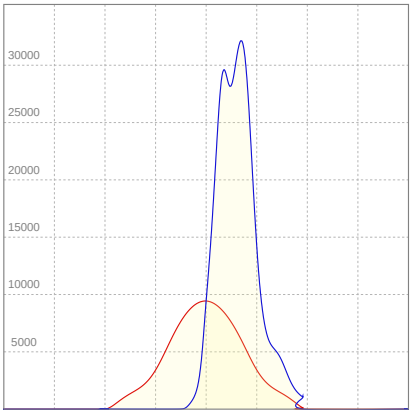


Beam angle 50%: 57,3°
Field angle 10%: 112,7°
Cut off angle 2.5%: 133,2°

Spectra



LINEAR DISTRIBUTION DIAGRAM



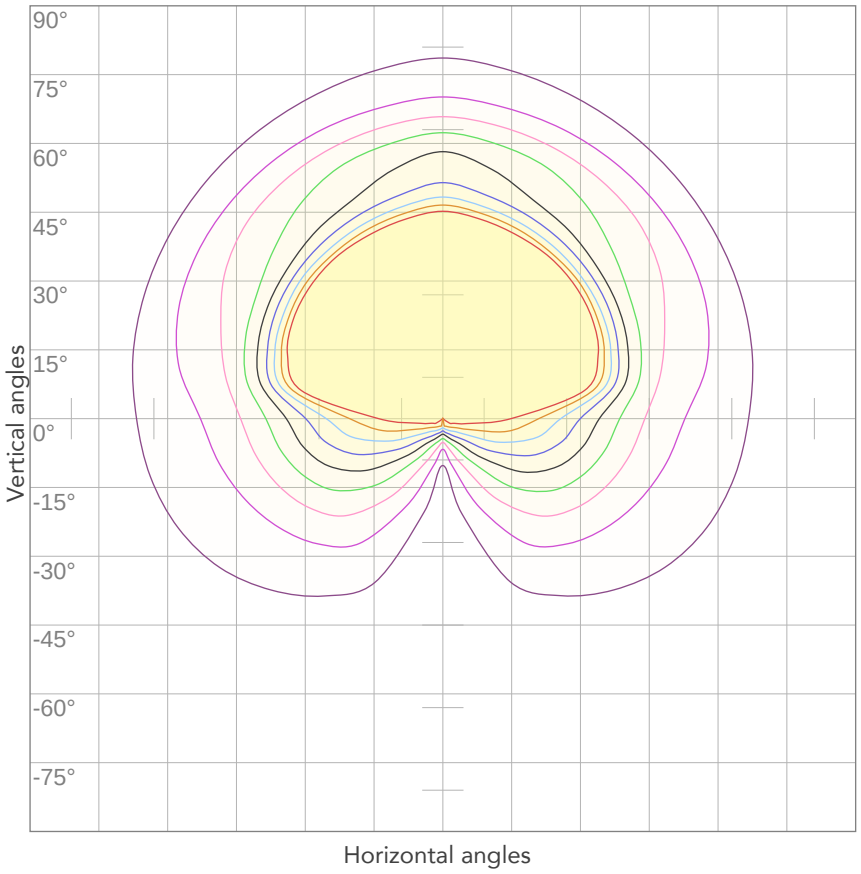
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	1,86A	394,1W	64lm/W

Power FC
0,95

ISO DIAGRAMS

ISO CANDELA DIAGRAM



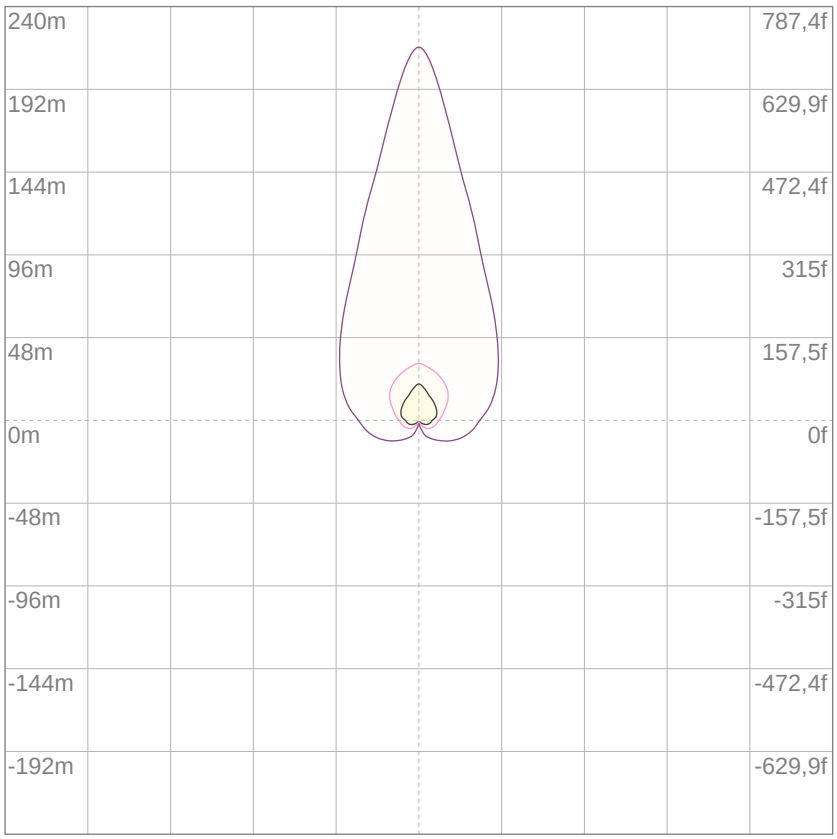
10%	943 cd
20%	1886 cd
30%	2828 cd
40%	3771 cd
50%	4714 cd
60%	5657 cd
70%	6600 cd
80%	7542 cd

Conditions:

Number of c-planes: 4

Candela at center: 9428 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	2,83 lx
5%	4,71 lx
10%	9,43 lx
30%	28,3 lx
50%	47,1 lx

Conditions:

Number of c-planes: 4

Lux at center: 94,3 lx

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

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Total lumen output:

5073 lm

Peak candela output:

6820 cd

PRODUCT NAME:

ECL CYC100

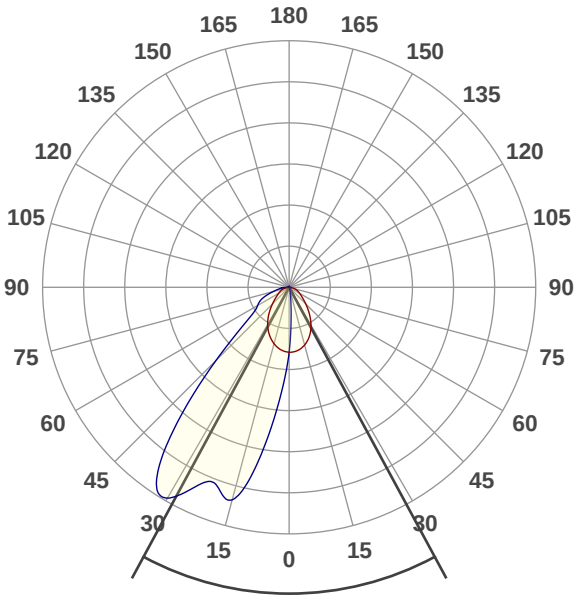
MEASURAMENT CONDITIONS:

Beam angle:
Filter 1060

Target:
Red

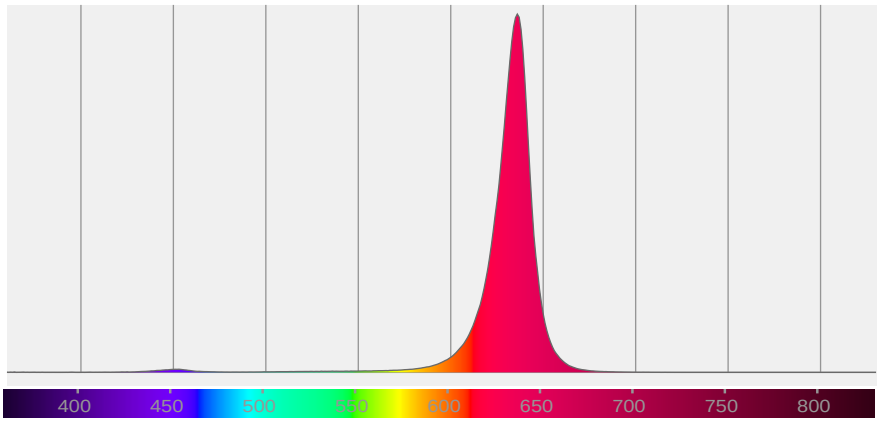
Operator:
Paolo Carvone

Date and time:
23/03/2021 14:49:09



Beam angle 50%: 56,8°
Field angle 10%: 110,8°
Cut off angle 2.5%: 132,3°

Spectra



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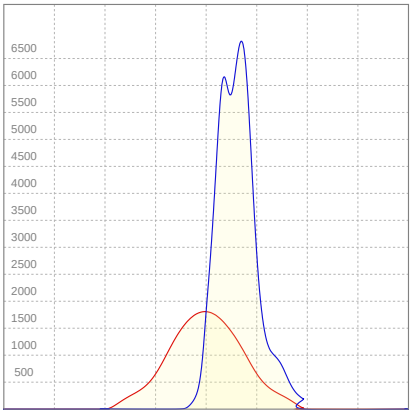
LINEAR DISTRIBUTION DIAGRAM



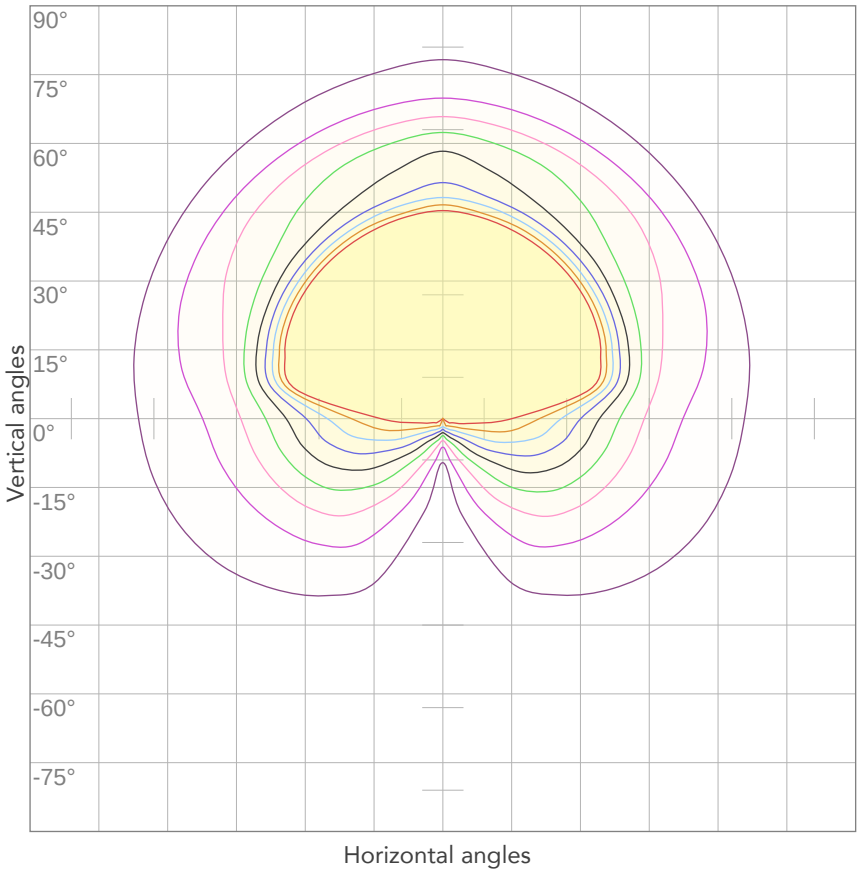
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,553A	79,1W	64lm/W

Power FC
0,64

ISO DIAGRAMS

ISO CANDELA DIAGRAM



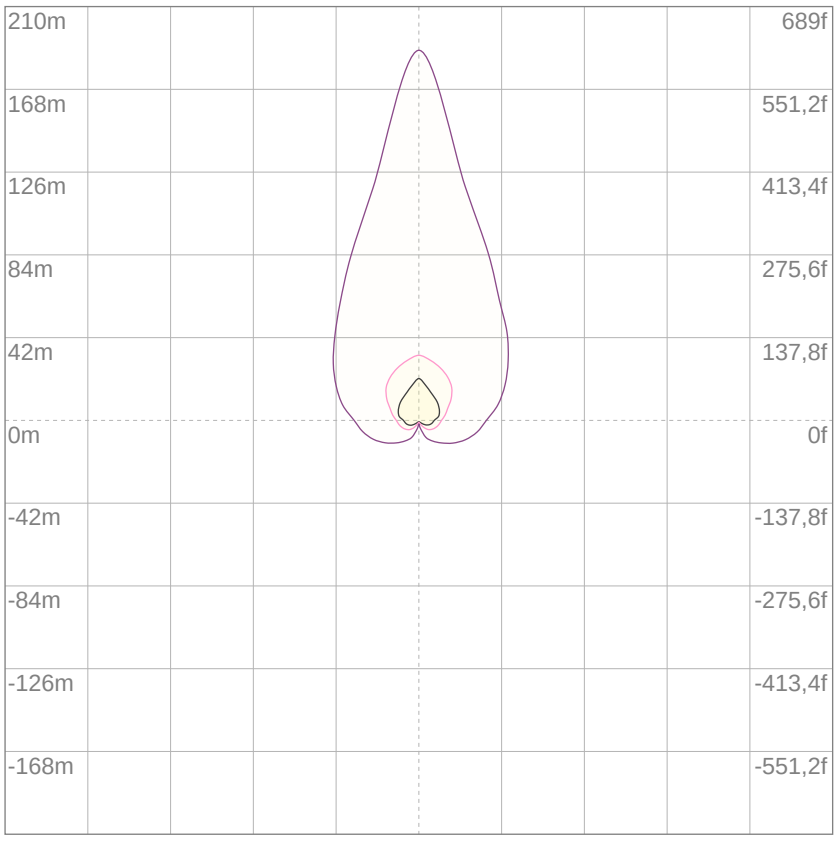
10%	181 cd
20%	361 cd
30%	542 cd
40%	723 cd
50%	904 cd
60%	1084 cd
70%	1265 cd
80%	1446 cd

Conditions:

Number of c-planes: 4

Candela at center: 1807 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,542 lx
5%	0,904 lx
10%	1,81 lx
30%	5,42 lx
50%	9,04 lx

Conditions:

Number of c-planes: 4

Lux at center: 18,1 lx

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

Total lumen output:

7445 lm

Peak candela output:

9214 cd

PRODUCT NAME:

ECL CYC100

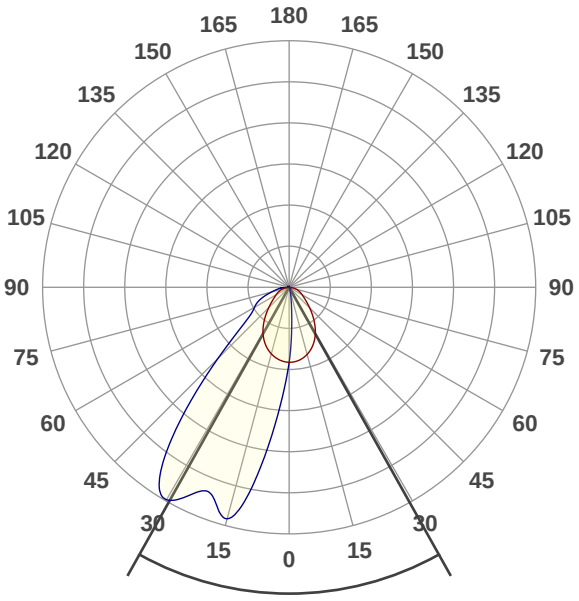
MEASURAMENT CONDITIONS:

Beam angle:
Filter 1060

Target:
Green

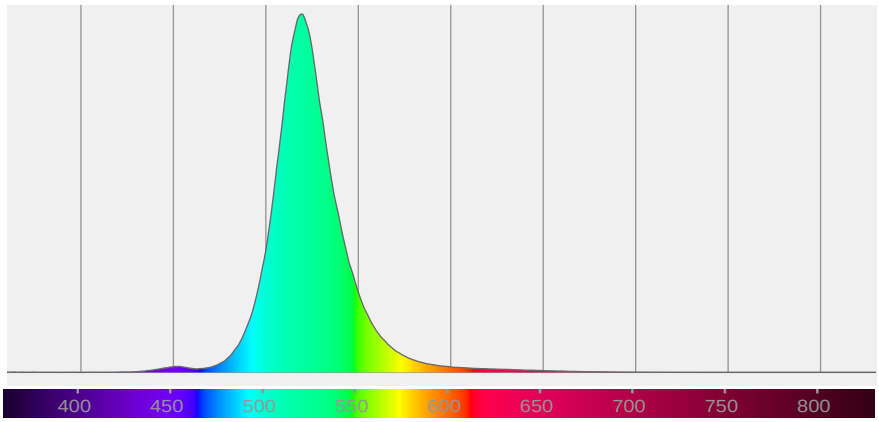
Operator:
Paolo Carvone

Date and time:
23/03/2021 14:46:23

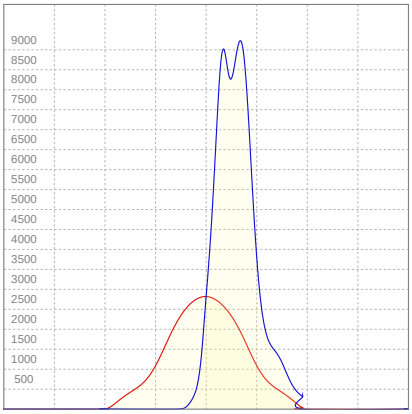


Beam angle 50%: 58,5°
Field angle 10%: 113,1°
Cut off angle 2.5%: 133,4°

Spectra



LINEAR DISTRIBUTION DIAGRAM



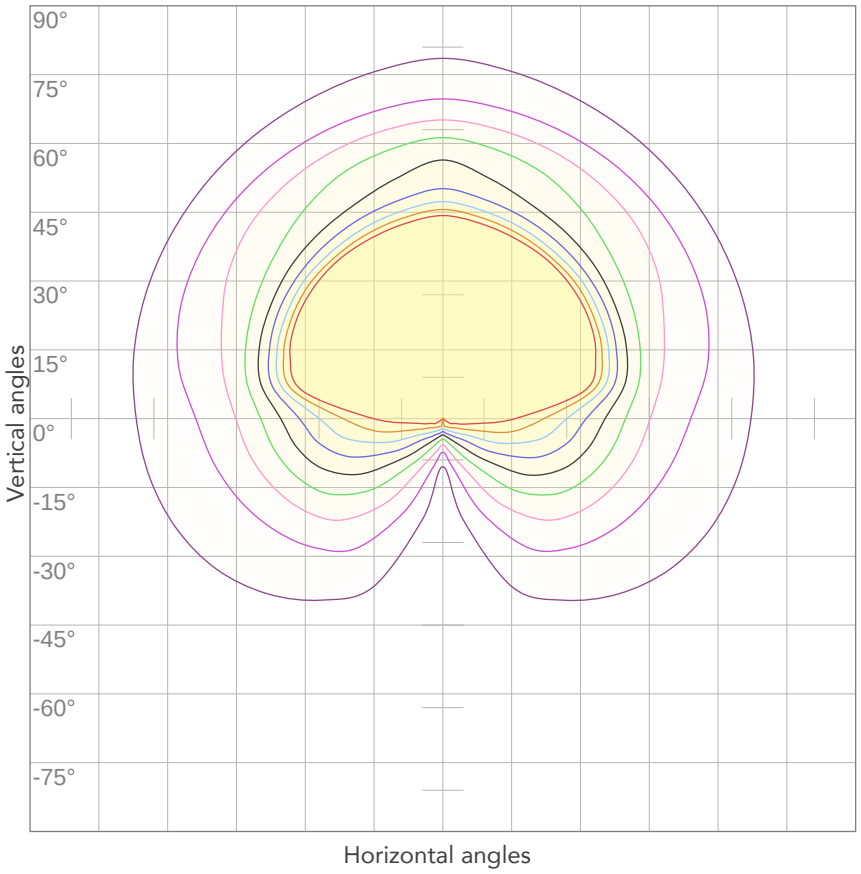
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,600A	90,3W	82lm/W

Power FC
0,67

ISO DIAGRAMS

ISO CANDELA DIAGRAM



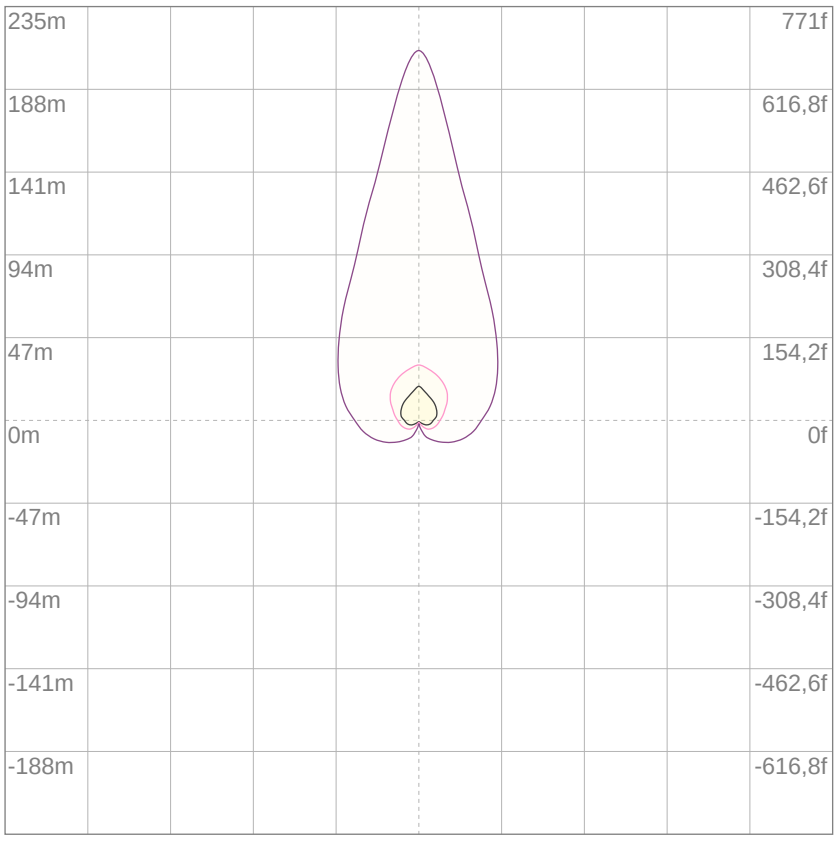
10%	282 cd
20%	564 cd
30%	846 cd
40%	1128 cd
50%	1411 cd
60%	1693 cd
70%	1975 cd
80%	2257 cd

Conditions:

Number of c-planes: 4

Candela at center: 2821 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,846 lx
5%	1,41 lx
10%	2,82 lx
30%	8,46 lx
50%	14,1 lx

Conditions:

Number of c-planes: 4

Lux at center: 28,2 lx

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

Total lumen output:

2601 lm

Peak candela output:

3694 cd

PRODUCT NAME:

ECL CYC100

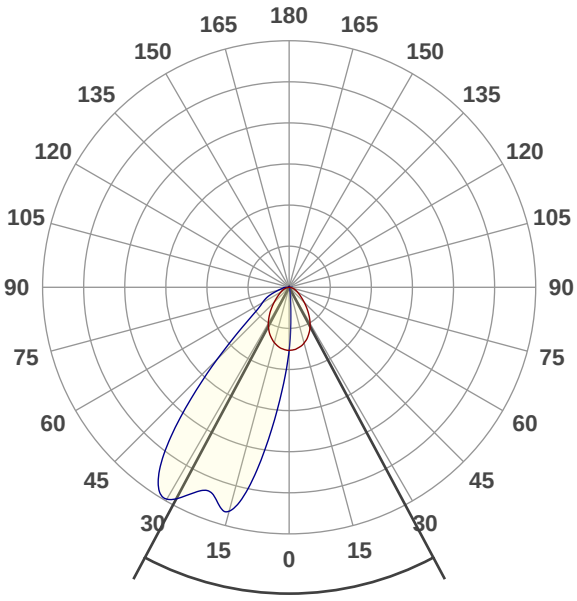
MEASURAMENT CONDITIONS:

Beam angle:
Filter 1060

Target:
Blue

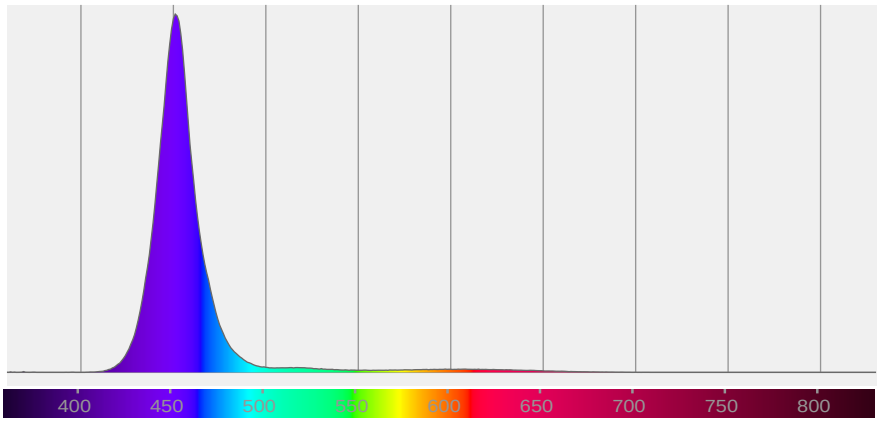
Operator:
Paolo Carvone

Date and time:
23/03/2021 14:44:00



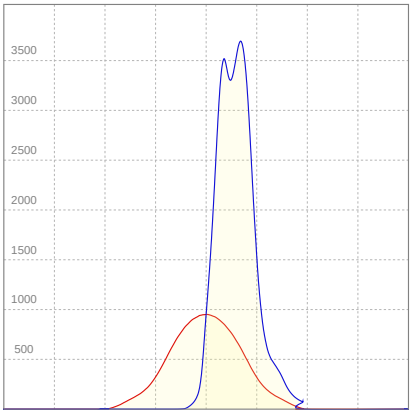
Beam angle 50%: 56,2°
Field angle 10%: 102,8°
Cut off angle 2.5%: 127,2°

Spectra



BEAM DETAILS

LINEAR DISTRIBUTION DIAGRAM



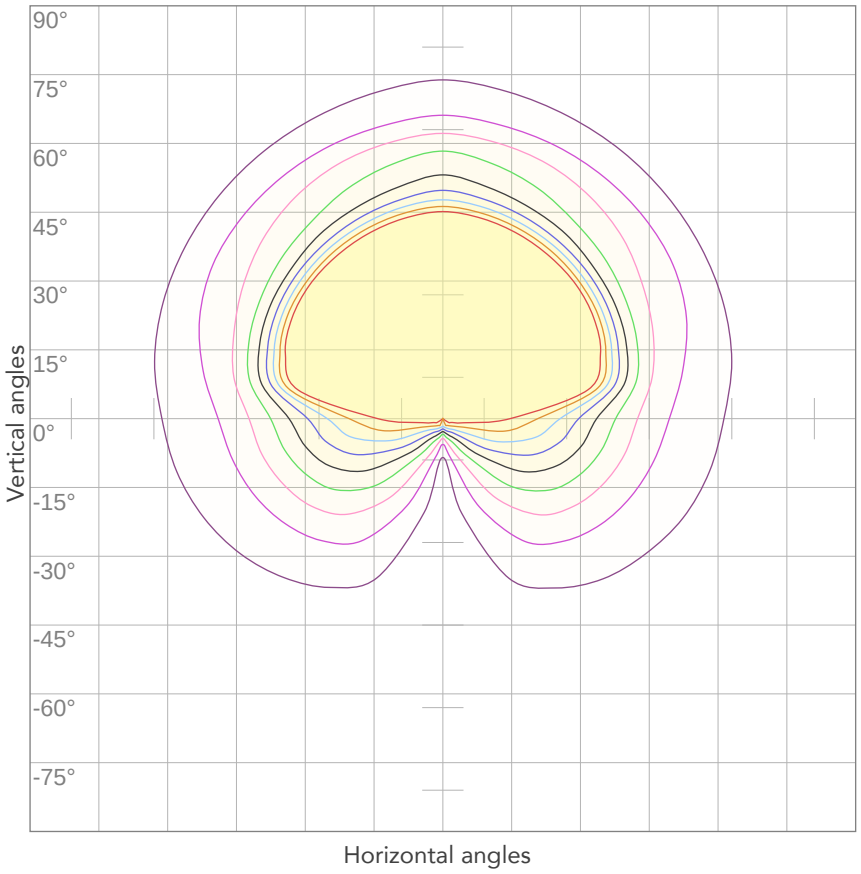
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,632A	98,3W	26lm/W

Power FC
0,69

ISO DIAGRAMS

ISO CANDELA DIAGRAM



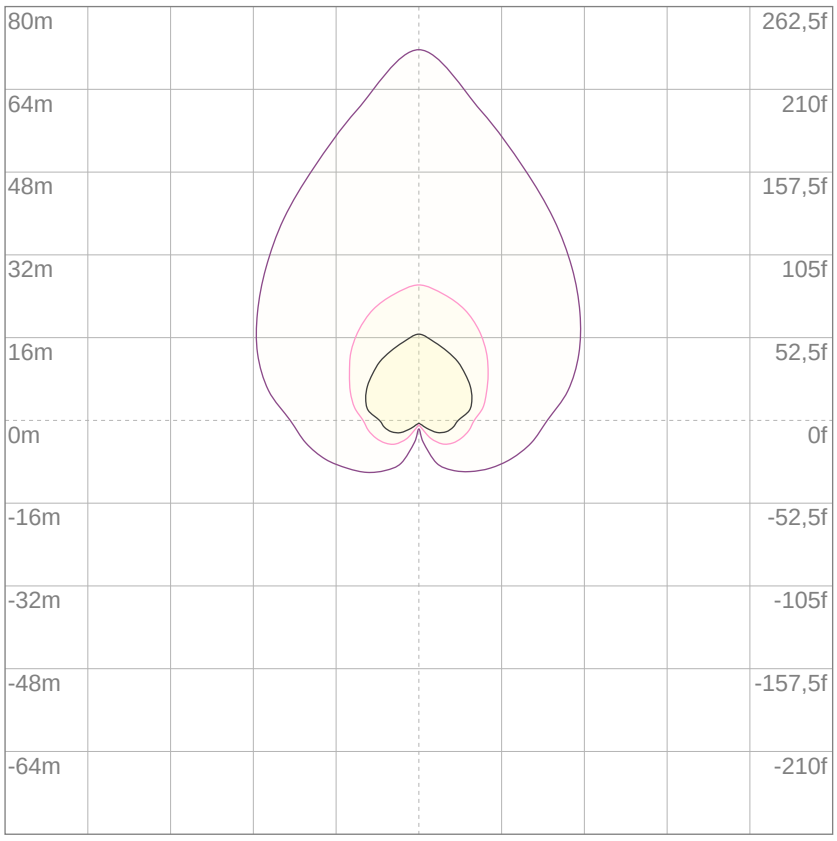
10%	95 cd
20%	190 cd
30%	285 cd
40%	380 cd
50%	475 cd
60%	570 cd
70%	665 cd
80%	760 cd

Conditions:

Number of c-planes: 4

Candela at center: 950 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,285 lx
5%	0,475 lx
10%	0,950 lx
30%	2,85 lx
50%	4,75 lx

Conditions:

Number of c-planes: 4

Lux at center: 9,50 lx

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

Total lumen output:

24499 lm

Peak candela output:

31105 cd

PRODUCT NAME:

ECL CYC100

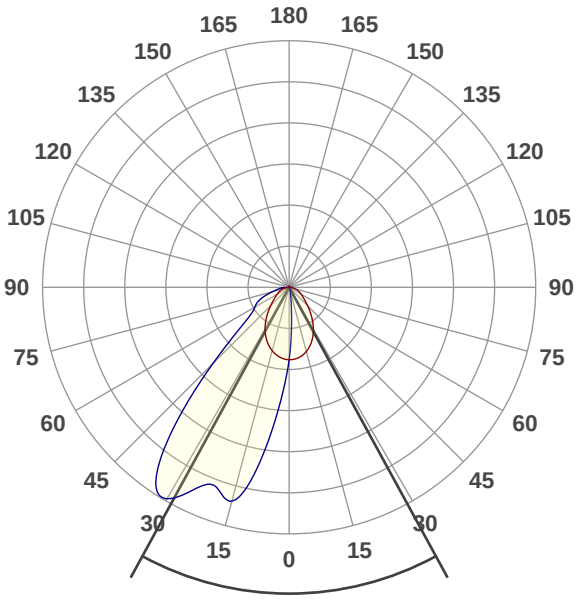
MEASURAMENT CONDITIONS:

Beam angle:
Filter 1060

Target:
White

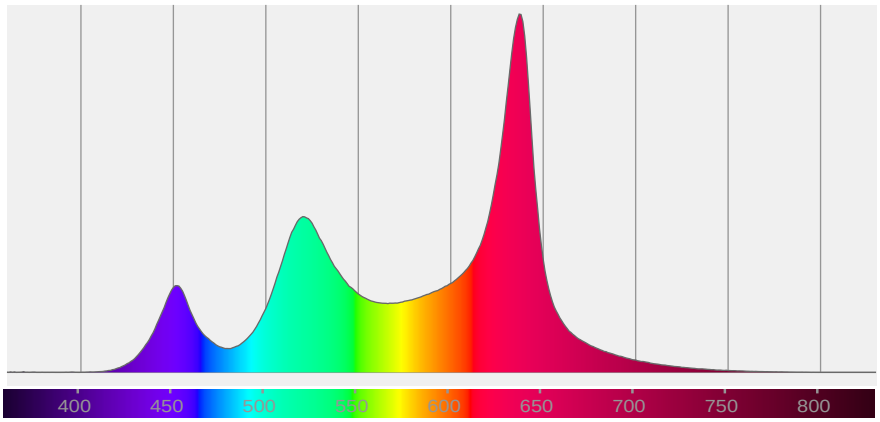
Operator:
Paolo Carvone

Date and time:
23/03/2021 14:54:03



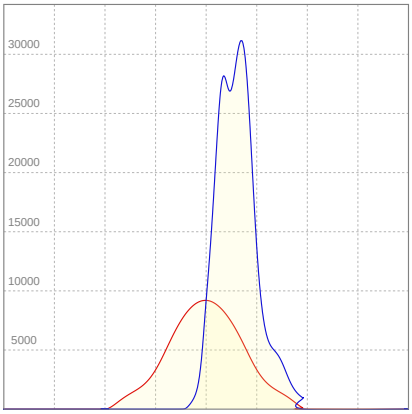
Beam angle 50%: 57,3°
Field angle 10%: 112,3°
Cut off angle 2.5%: 132,9°

Spectra



BEAM DETAILS

LINEAR DISTRIBUTION DIAGRAM



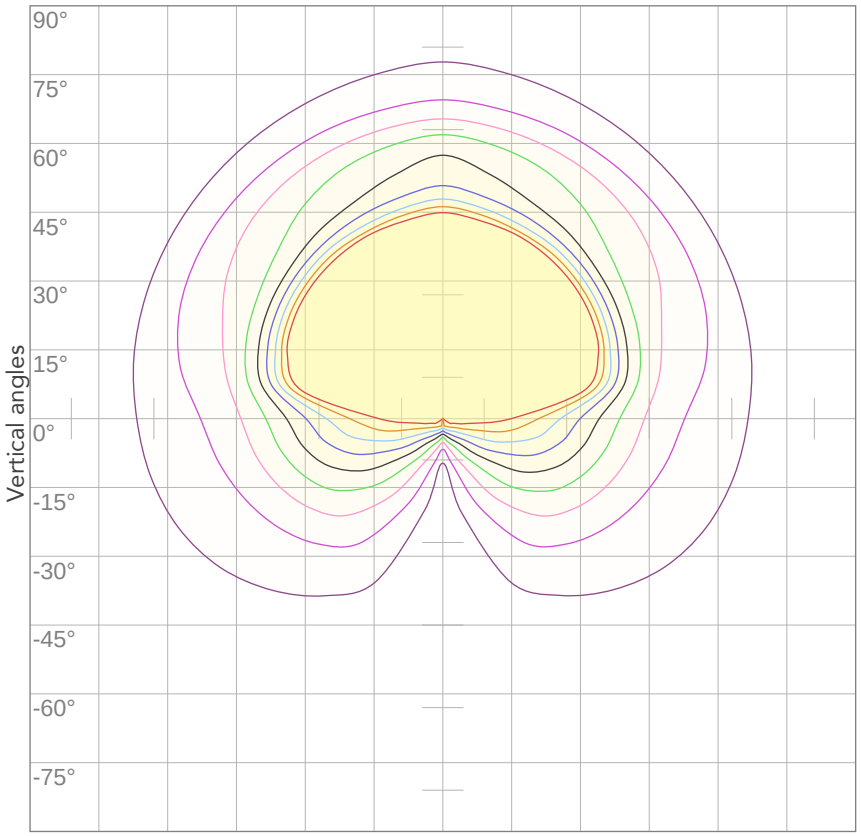
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	1,56A	324,7W	75lm/W

Power FC
0,93

ISO DIAGRAMS

ISO CANDELA DIAGRAM



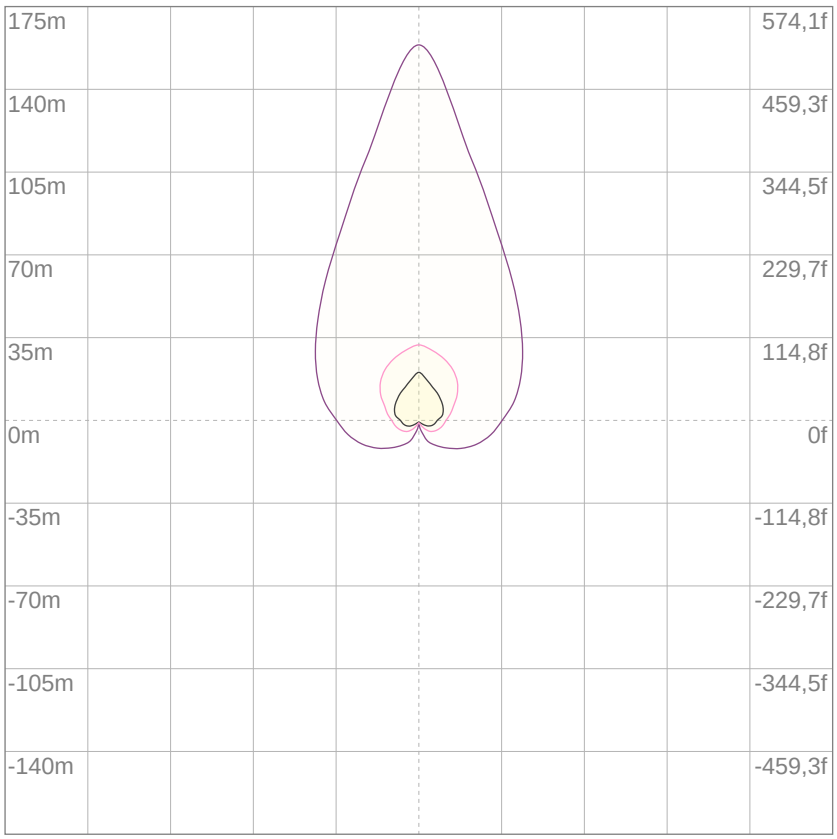
10%	919 cd
20%	1839 cd
30%	2758 cd
40%	3677 cd
50%	4596 cd
60%	5516 cd
70%	6435 cd
80%	7354 cd

Conditions:

Number of c-planes: 4

Candela at center: 9193 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	2,76 lx
5%	4,60 lx
10%	9,19 lx
30%	27,6 lx
50%	46,0 lx

Conditions:

Number of c-planes: 4

Lux at center: 91,9 lx

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

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Total lumen output:

11692 lm

Peak candela output:

14881 cd

Light quality:

CRI: 92,2

Color temperature:

2778 K

PRODUCT NAME:

ECL CYC100

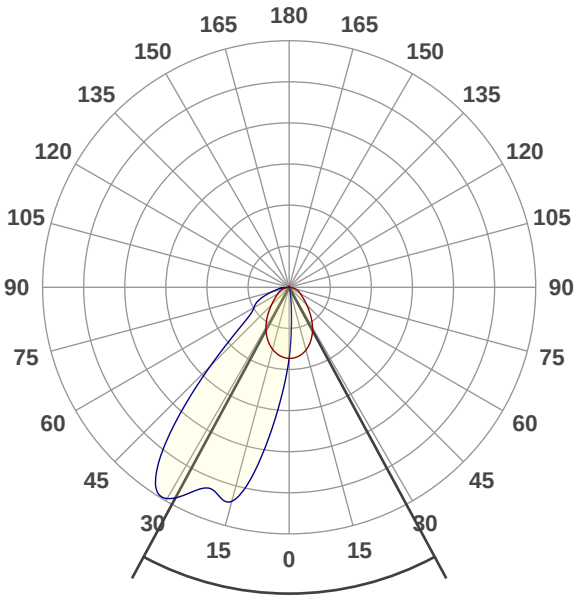
MEASURAMENT CONDITIONS:

Beam angle:
Filter 1060

Target:
2800K

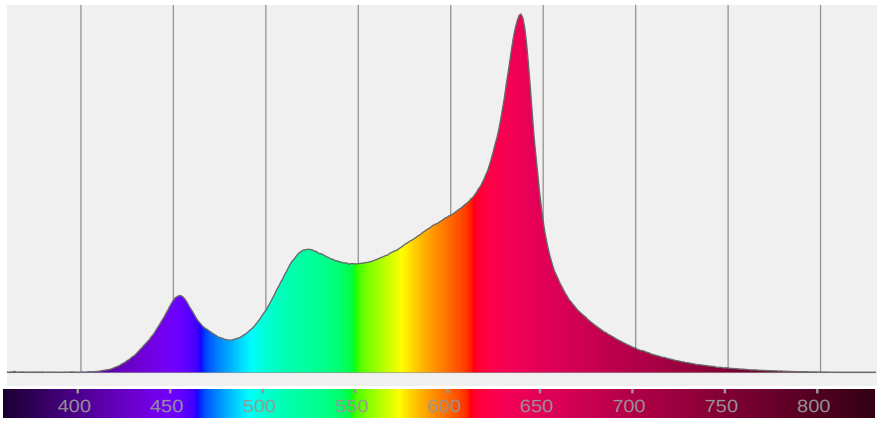
Operator:
Paolo Carvone

Date and time:
23/03/2021 13:30:11



Beam angle 50%: 56,7°
Field angle 10%: 112,2°
Cut off angle 2.5%: 132,8°

Spectra



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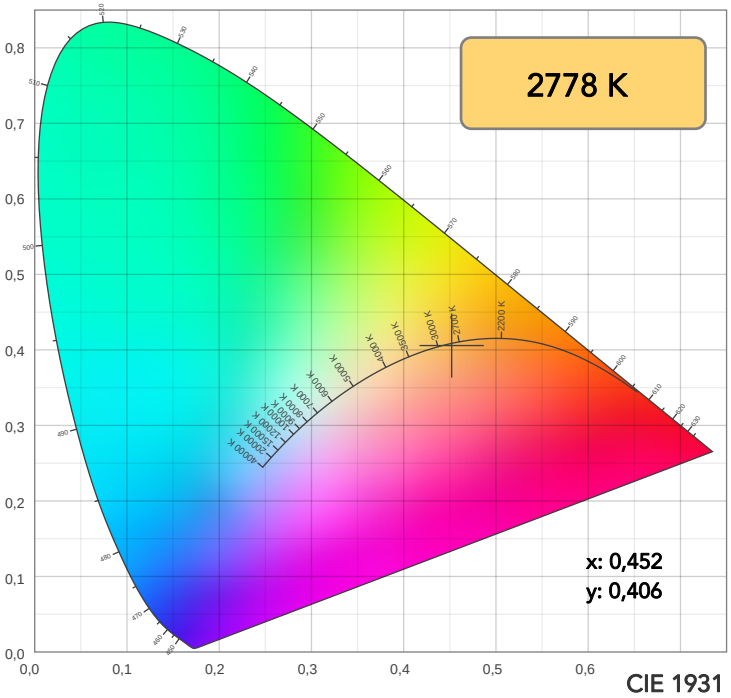
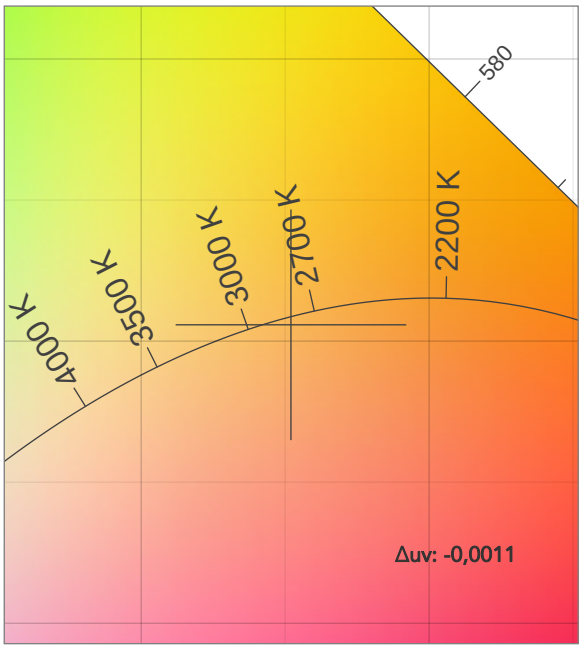
COLOR DETAILS

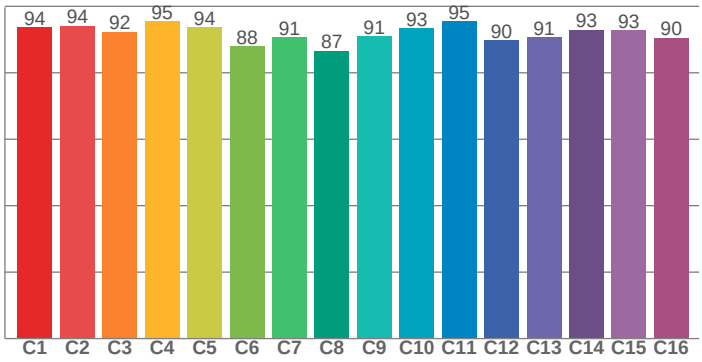


CIE 1931

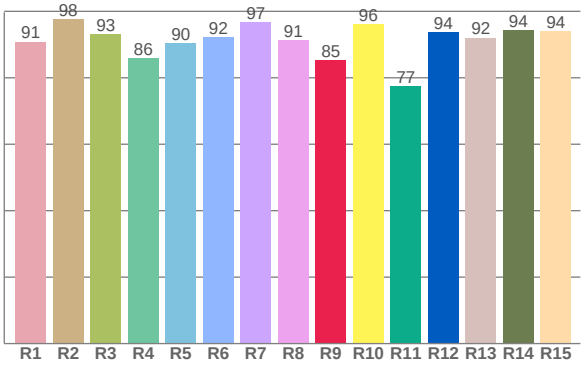


CIE 1931 ZOOM

TM30: 92,4



CRI: 92,2 (R1-R8)



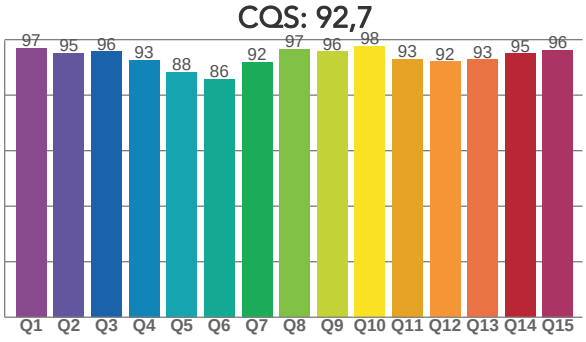
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
90,8	97,6	93,0	85,9	90,3	92,2	96,8	91,3	85,3	96,1	77,5	93,7	92,1	94,3	93,9

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
93,7	94,1	92,3	95,5	93,7	88,0	90,7	86,6	91,0	93,3	95,5	89,8	90,6	92,9	92,8	90,4

CQS: 92,7



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,9	95,1	95,8	92,6	88,4	85,8	91,9	96,5	95,8	97,6	93,0	92,1	92,8	94,9	96,3

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
2778 K	92,2	85,3	92,4	105,6	92,7	87	0,452	0,406	-0,0011

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TM30 DETAILS

PROLiGHTS

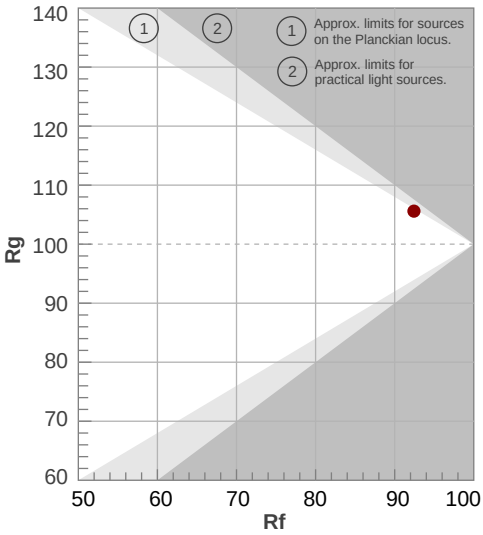
Rf 92,4

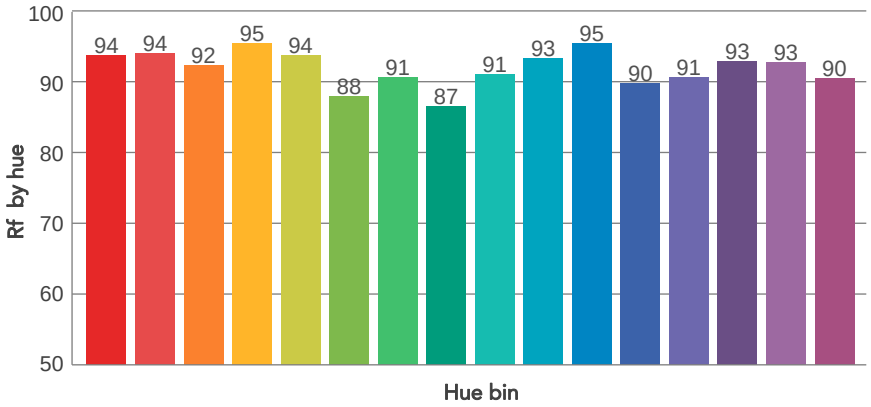
Fidelity index Rf

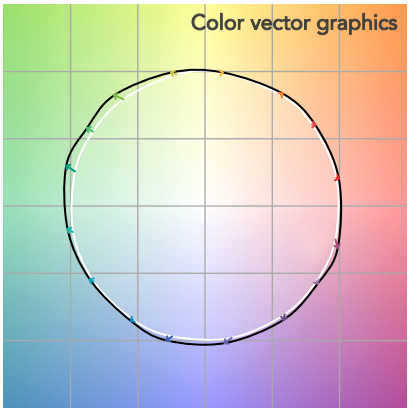
Rg 105,6

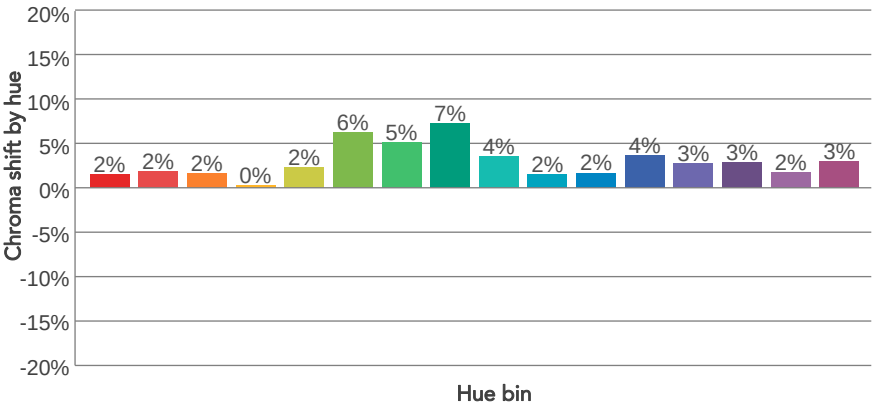
Gammut index

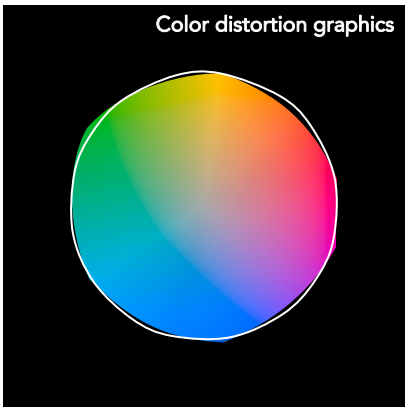
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	94	2%	-1%
2	94	2%	-1%
3	92	2%	-1%
4	95	0%	-1%
5	94	2%	4%
6	88	6%	4%
7	91	5%	0%
8	87	7%	-3%
9	91	4%	-3%
10	93	2%	-3%
11	95	2%	-1%
12	90	4%	-4%
13	91	3%	-6%
14	93	3%	-3%
15	93	2%	-1%
16	90	3%	-6%

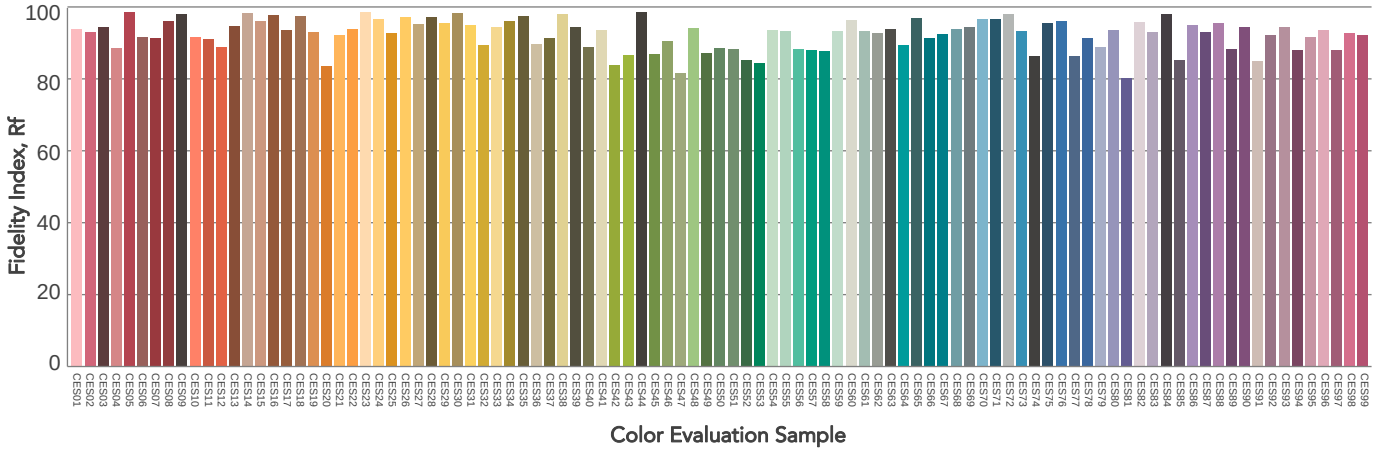












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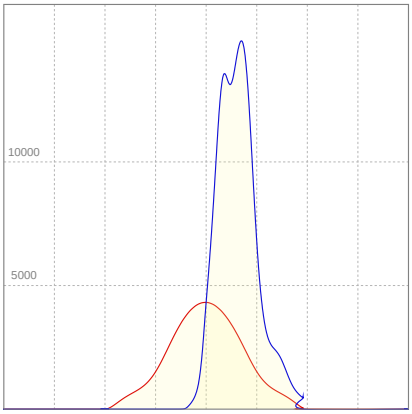
LINEAR DISTRIBUTION DIAGRAM

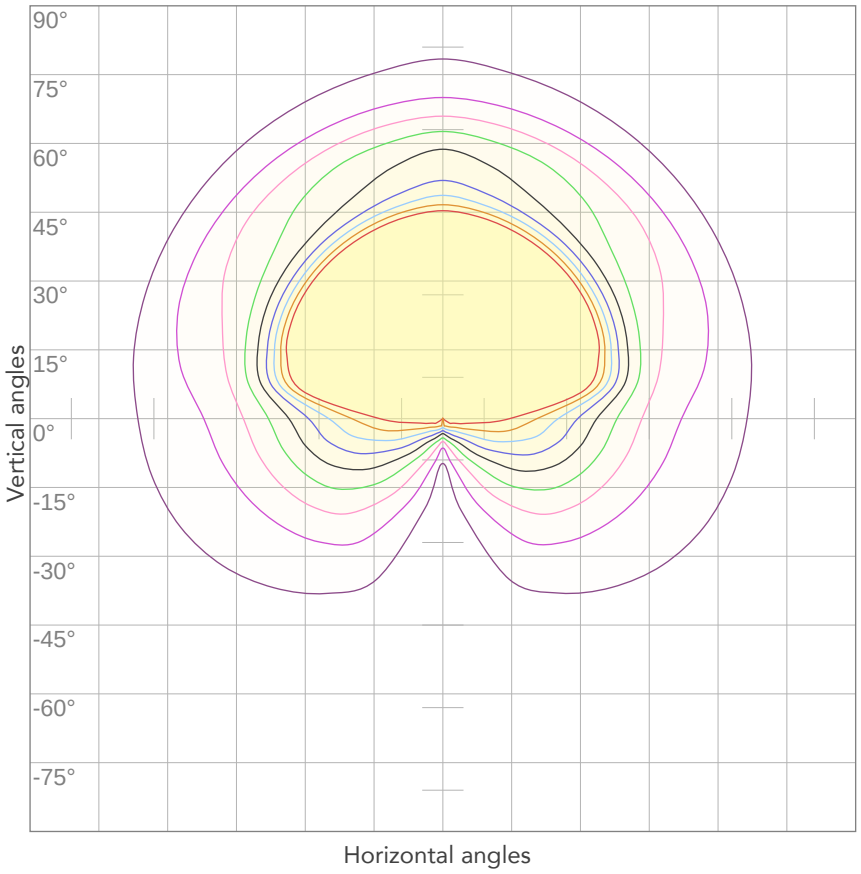


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,793A	139,5W	84lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



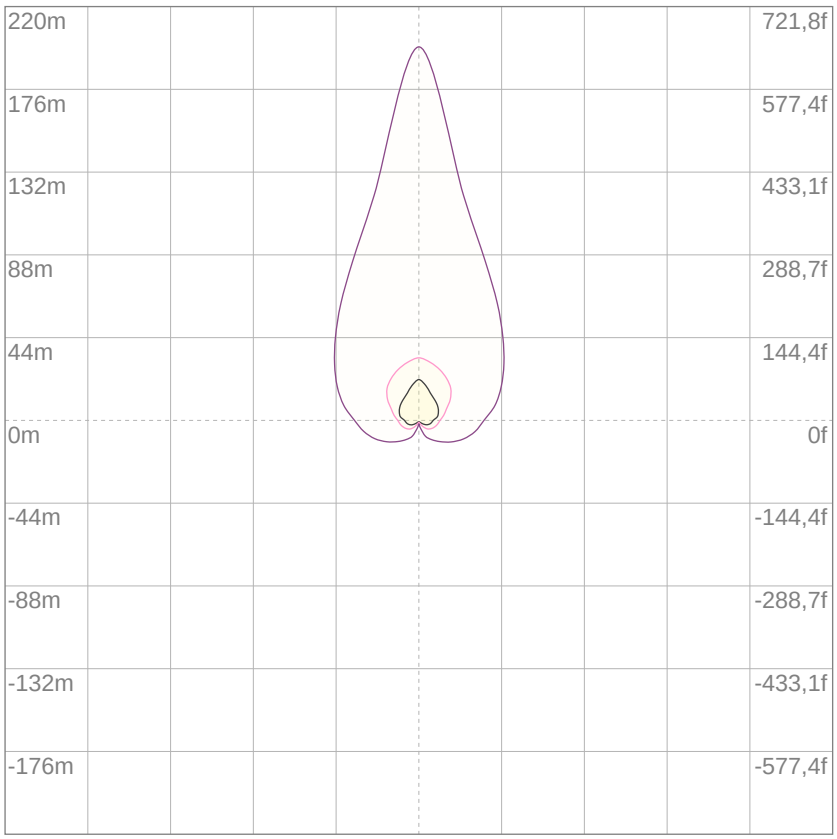
10%	432 cd
20%	864 cd
30%	1295 cd
40%	1727 cd
50%	2159 cd
60%	2591 cd
70%	3023 cd
80%	3455 cd

Conditions:

Number of c-planes: 4

Candela at center: 4318 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,30 lx
5%	2,16 lx
10%	4,32 lx
30%	13,0 lx
50%	21,6 lx

Conditions:

Number of c-planes: 4

Lux at center: 43,2 lx

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

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Total lumen output:

13141 lm

Peak candela output:

16639 cd

Light quality:

CRI: 92,7

Color temperature:

3245 K

PRODUCT NAME:

ECL CYC100

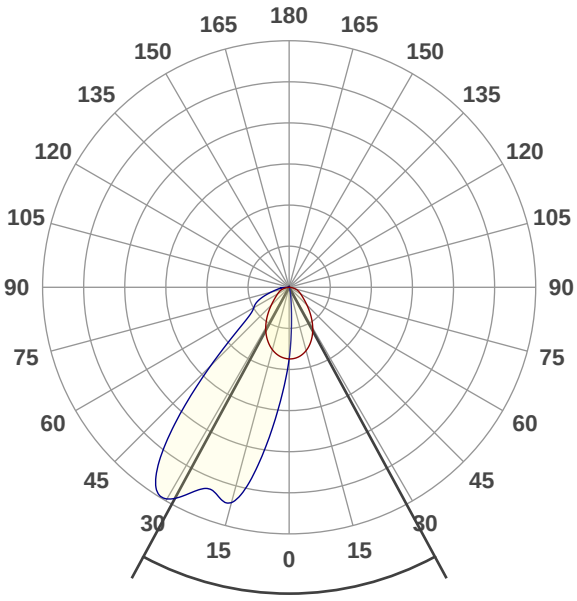
MEASURAMENT CONDITIONS:

Beam angle:
Filter 1060

Target:
3200K

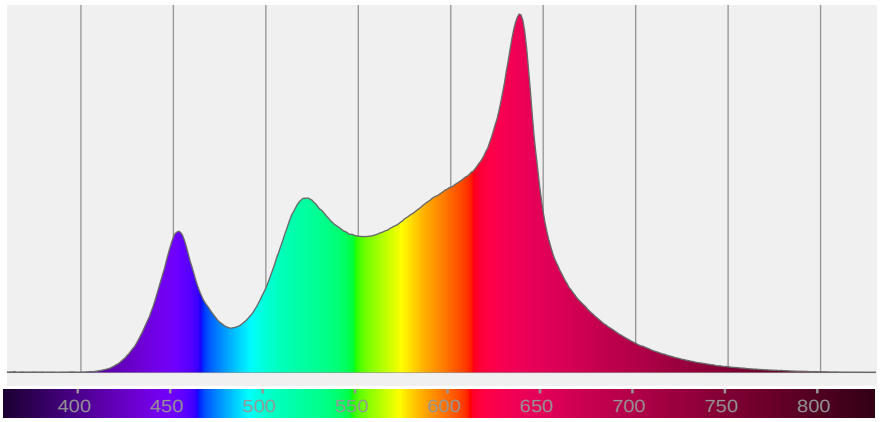
Operator:
Paolo Carvone

Date and time:
23/03/2021 13:32:44



Beam angle 50%: 56,8°
Field angle 10%: 112,5°
Cut off angle 2.5%: 133°

Spectra



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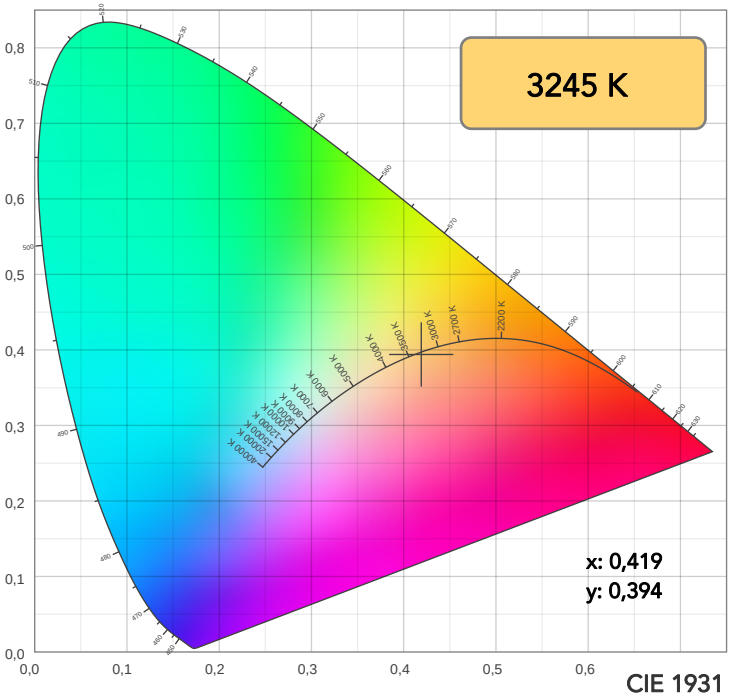
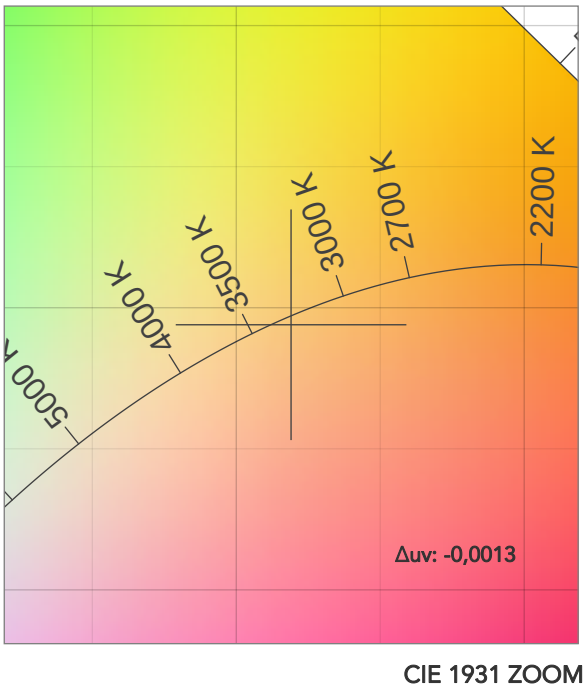
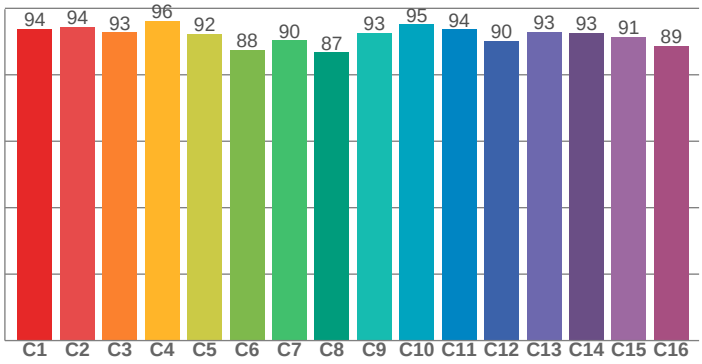
COLOR DETAILS

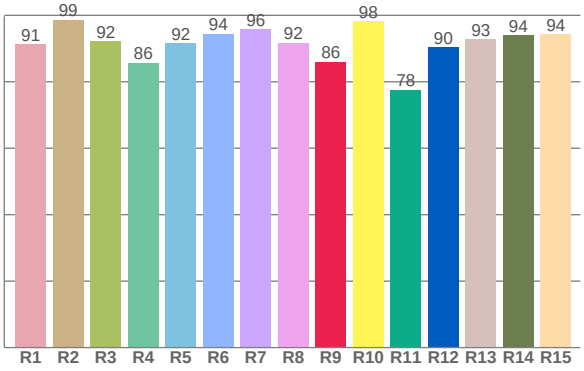




TM30: 92,4



CRI: 92,7 (R1-R8)



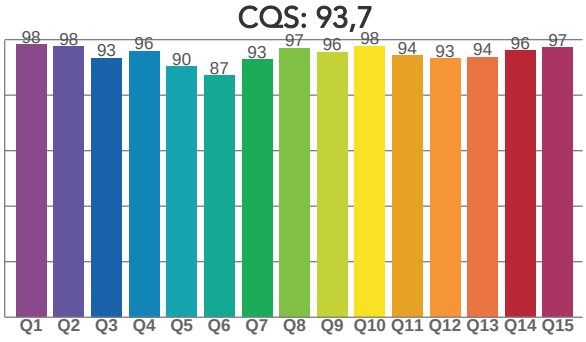
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
91,3	98,6	92,3	85,8	91,7	94,4	95,9	91,7	86,1	98,2	77,6	90,3	92,9	94,1	94,3

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,9	94,4	92,8	96,3	92,4	87,6	90,4	86,7	92,6	95,2	93,7	90,1	92,9	92,6	91,5	88,8

CQS: 93,7



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,3	97,5	93,4	95,9	90,2	87,0	92,8	97,0	95,6	97,6	94,2	93,2	93,8	96,0	97,2

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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3245 K	92,7	86,1	92,4	105,9	93,7	88	0,419	0,394	-0,0013

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TM30 DETAILS

PROLiGHTS

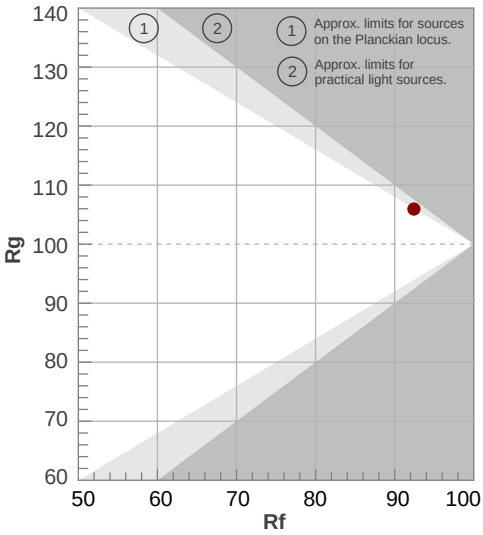
Rf 92,4

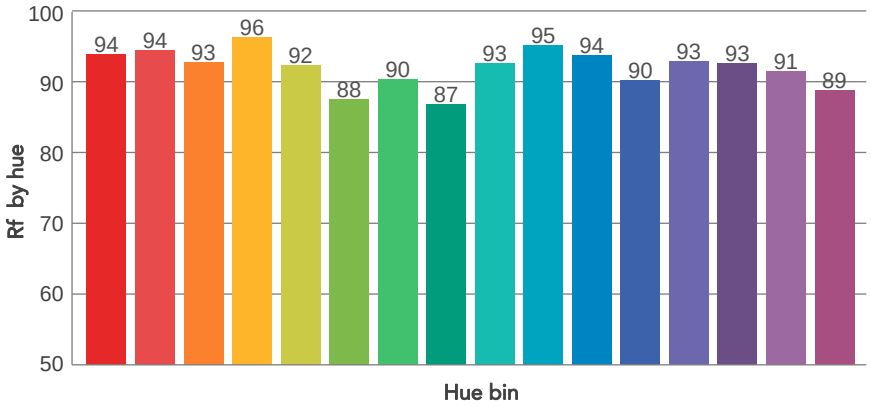
Fidelity index Rf

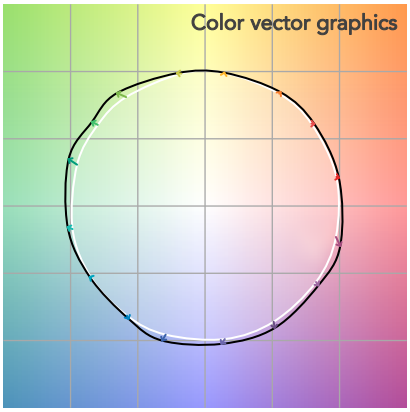
Rg 105,9

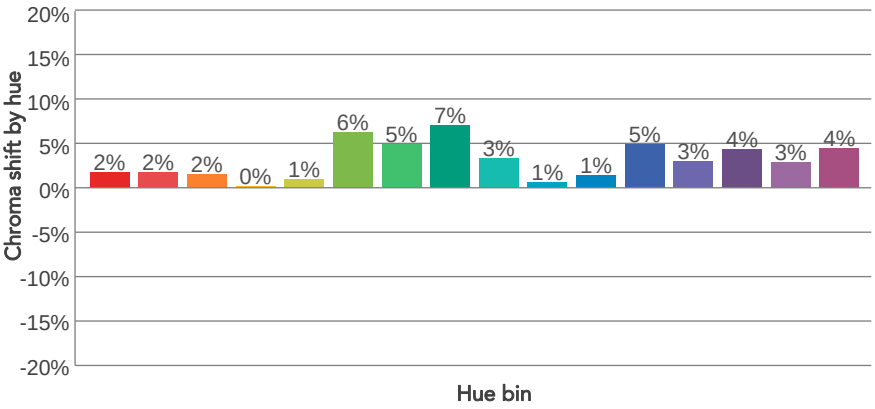
Gammut index

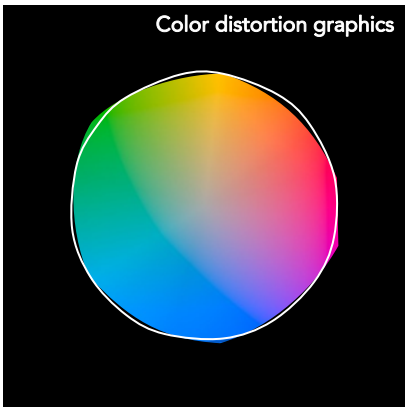
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	94	2%	-1%
2	94	2%	-1%
3	93	2%	0%
4	96	0%	0%
5	92	1%	3%
6	88	6%	4%
7	90	5%	1%
8	87	7%	-3%
9	93	3%	-2%
10	95	1%	-1%
11	94	1%	2%
12	90	5%	-2%
13	93	3%	-3%
14	93	4%	-2%
15	91	3%	-1%
16	89	4%	-6%

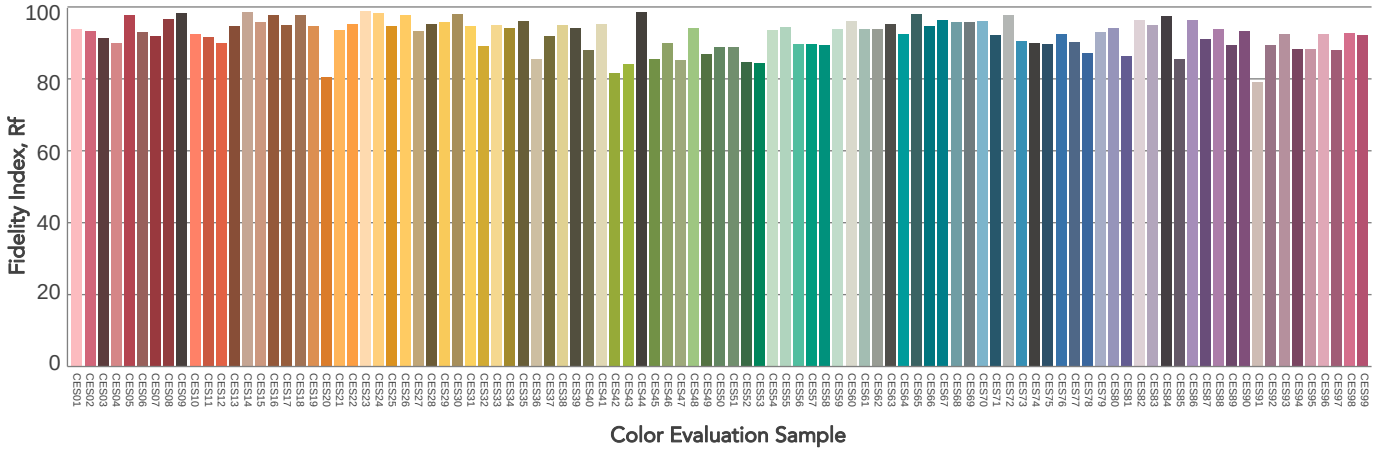












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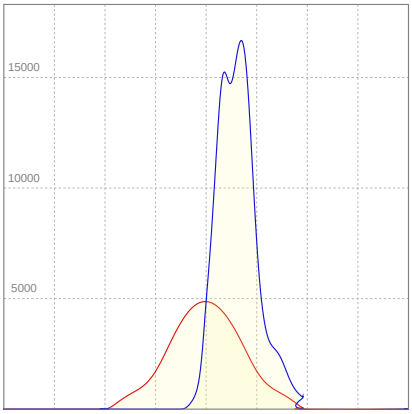
LINEAR DISTRIBUTION DIAGRAM

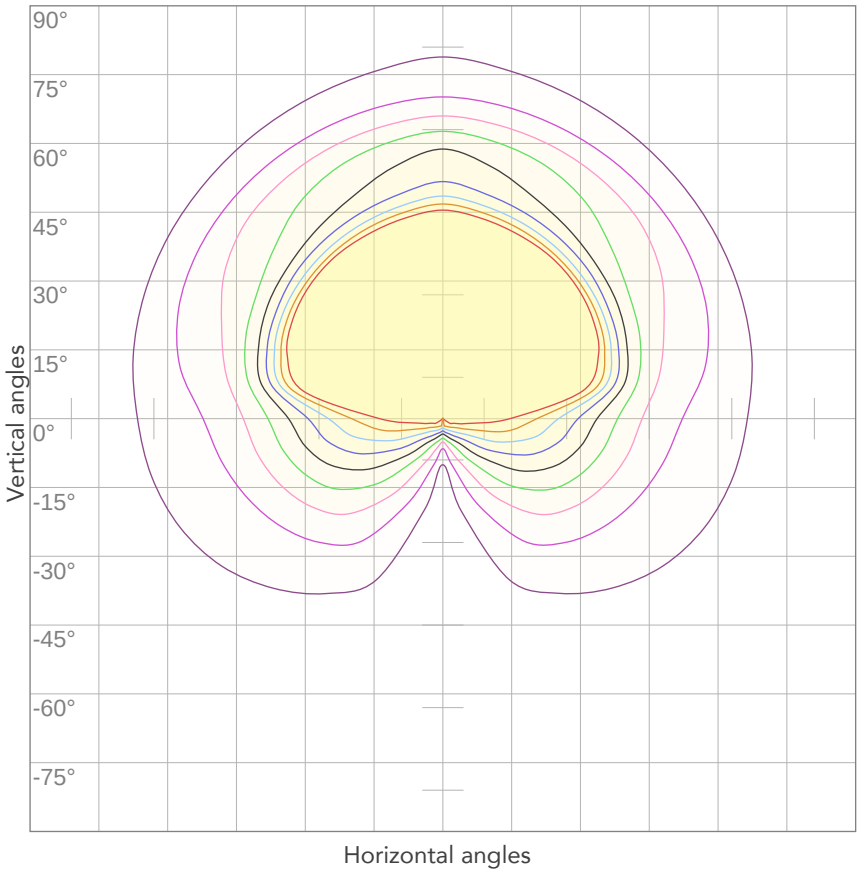


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,858A	156,4W	84lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



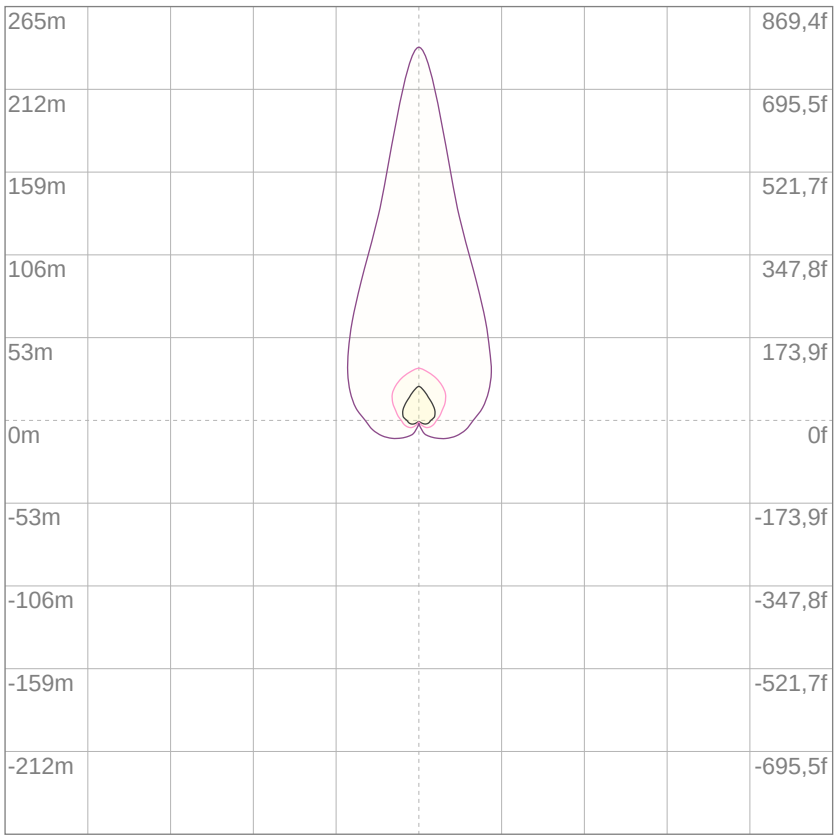
10%	486 cd
20%	972 cd
30%	1459 cd
40%	1945 cd
50%	2431 cd
60%	2917 cd
70%	3404 cd
80%	3890 cd

Conditions:

Number of c-planes: 4

Candela at center: 4862 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,46 lx
5%	2,43 lx
10%	4,86 lx
30%	14,6 lx
50%	24,3 lx

Conditions:

Number of c-planes: 4

Lux at center: 48,6 lx

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

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Total lumen output:

13784 lm

Peak candela output:

17376 cd

Light quality:

CRI: 93,2

Color temperature:

4122 K

PRODUCT NAME:

ECL CYC100

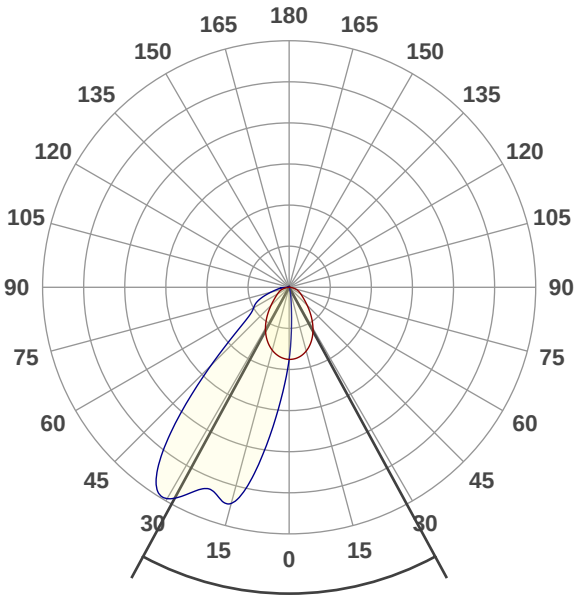
MEASURAMENT CONDITIONS:

Beam angle:
Filter 1060

Target:
4000K

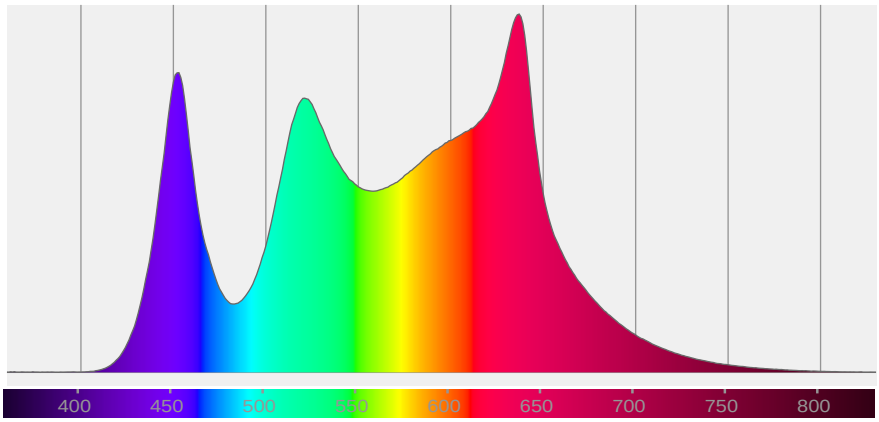
Operator:
Paolo Carvone

Date and time:
23/03/2021 13:35:07



Beam angle 50%: 57°
Field angle 10%: 112,6°
Cut off angle 2.5%: 133,3°

Spectra



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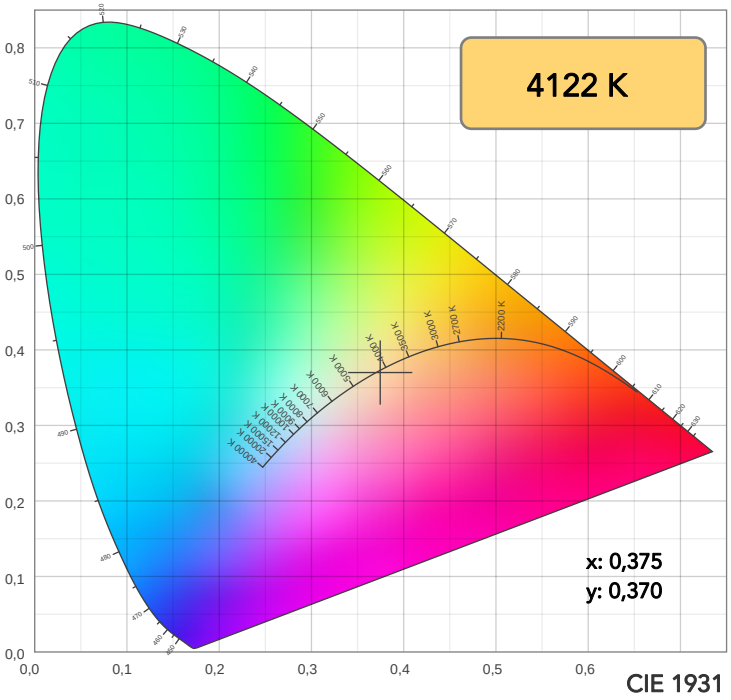
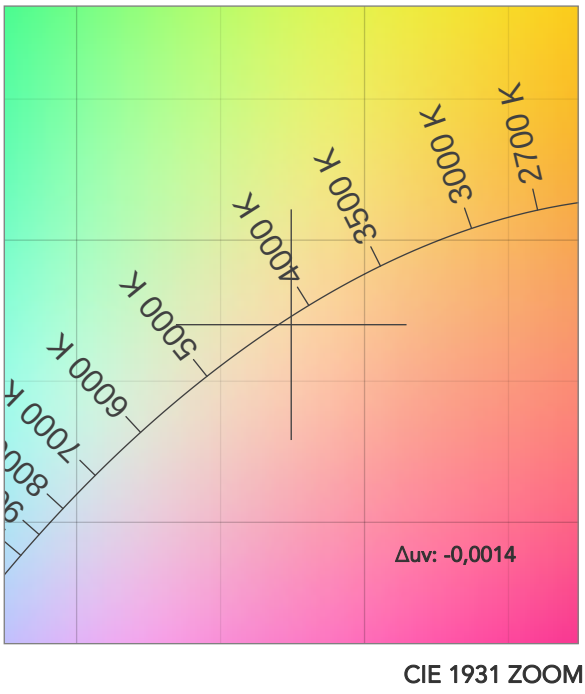
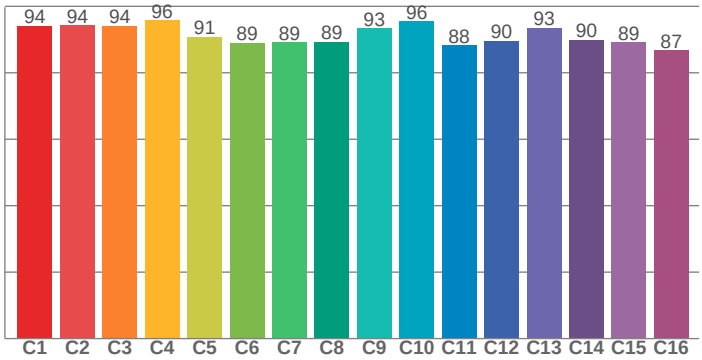
COLOR DETAILS

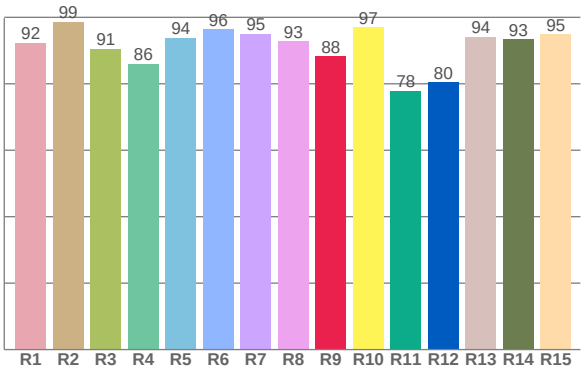




TM30: 91,7



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
92,3	98,6	90,5	86,0	93,8	96,4	95,1	92,7	88,3	97,1	77,9	80,4	94,1	93,4	95,0

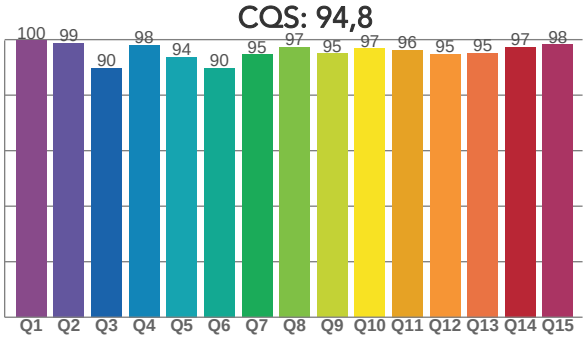
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,2	94,2	94,2	95,7	90,8	89,0	89,1	89,3	93,3	95,5	88,3	89,6	93,5	90,0	89,2	86,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
99,6	98,8	89,7	98,0	93,8	89,8	94,6	97,4	95,0	96,8	96,2	94,8	95,1	97,4	98,2

CQS: 94,8



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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4122 K	93,2	88,3	91,7	105,6	94,8	87	0,375	0,370	-0,0014

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TM30 DETAILS

PROLiGHTS

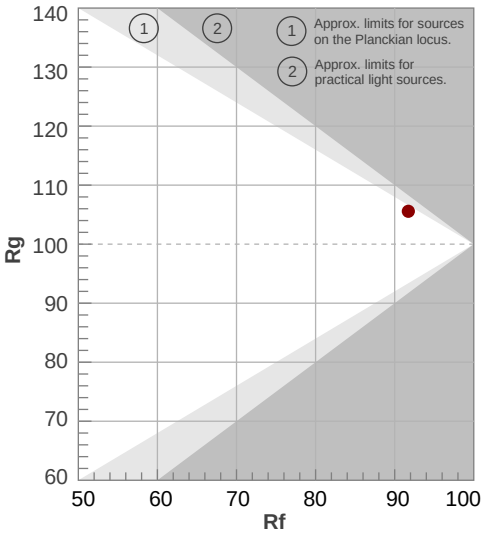
Rf 91,7

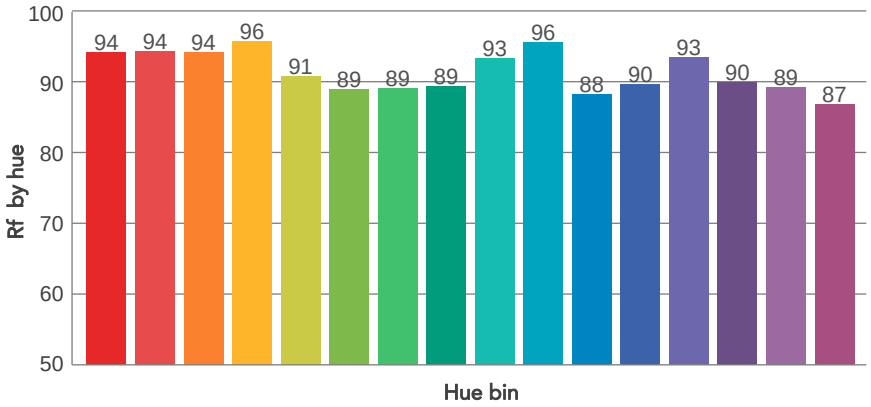
Fidelity index Rf

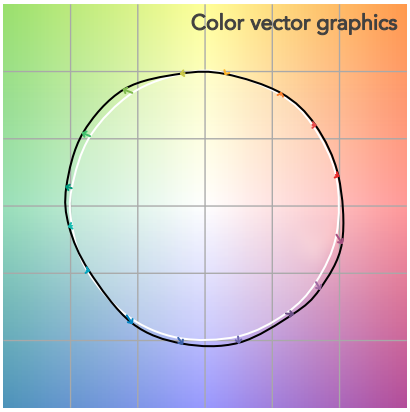
Rg 105,6

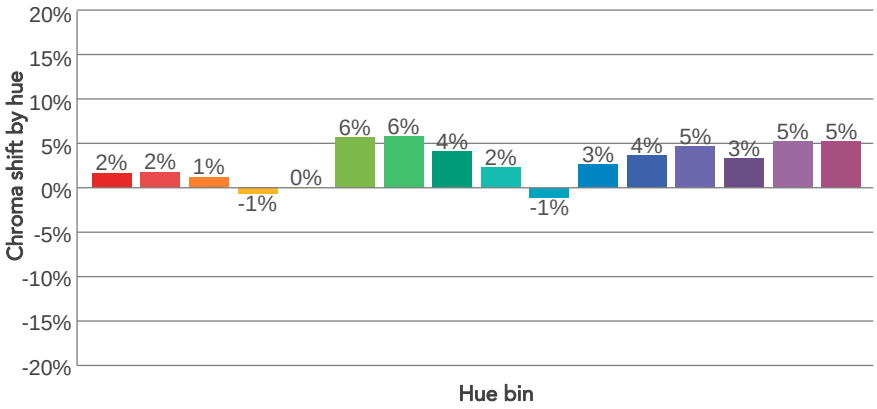
Gammut index

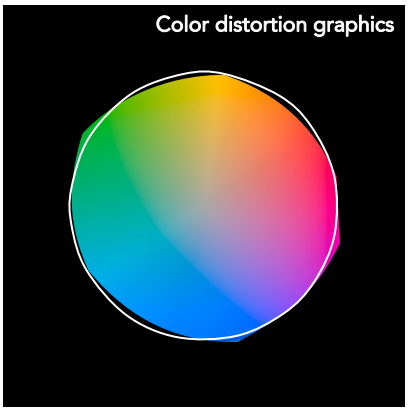
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	94	2%	-1%
2	94	2%	-1%
3	94	1%	0%
4	96	-1%	0%
5	91	0%	3%
6	89	6%	4%
7	89	6%	1%
8	89	4%	0%
9	93	2%	0%
10	96	-1%	1%
11	88	3%	6%
12	90	4%	4%
13	93	5%	0%
14	90	3%	4%
15	89	5%	-2%
16	87	5%	-5%

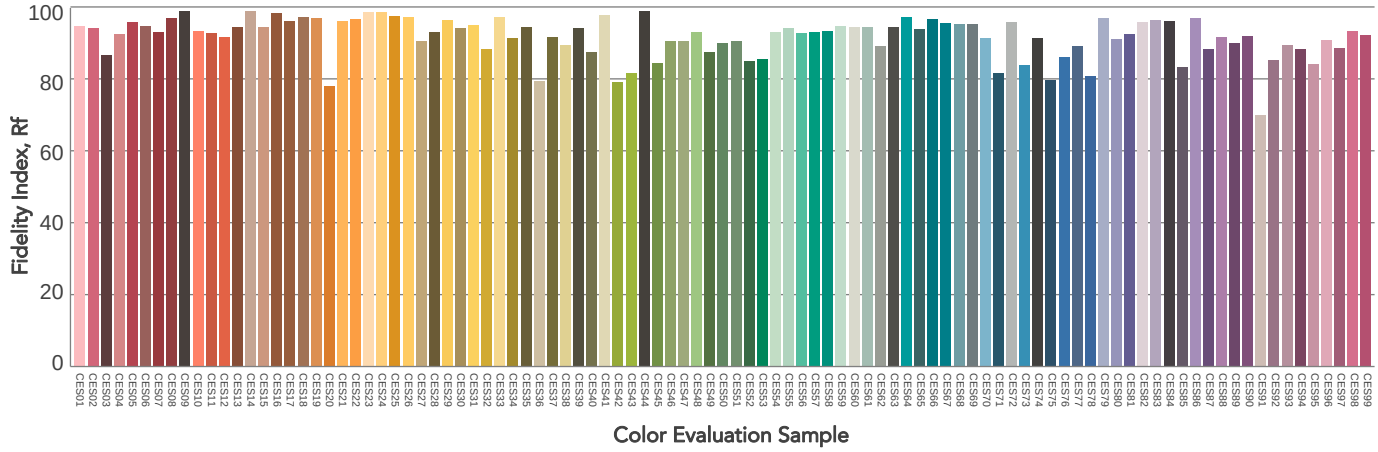












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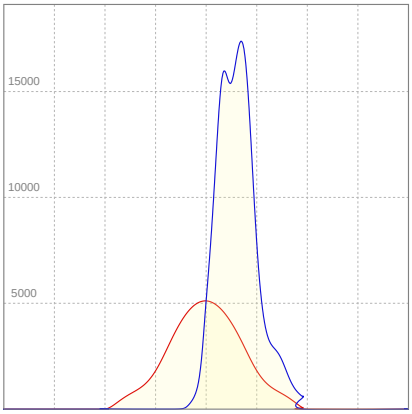
BEAM DETAILS

LINEAR DISTRIBUTION DIAGRAM

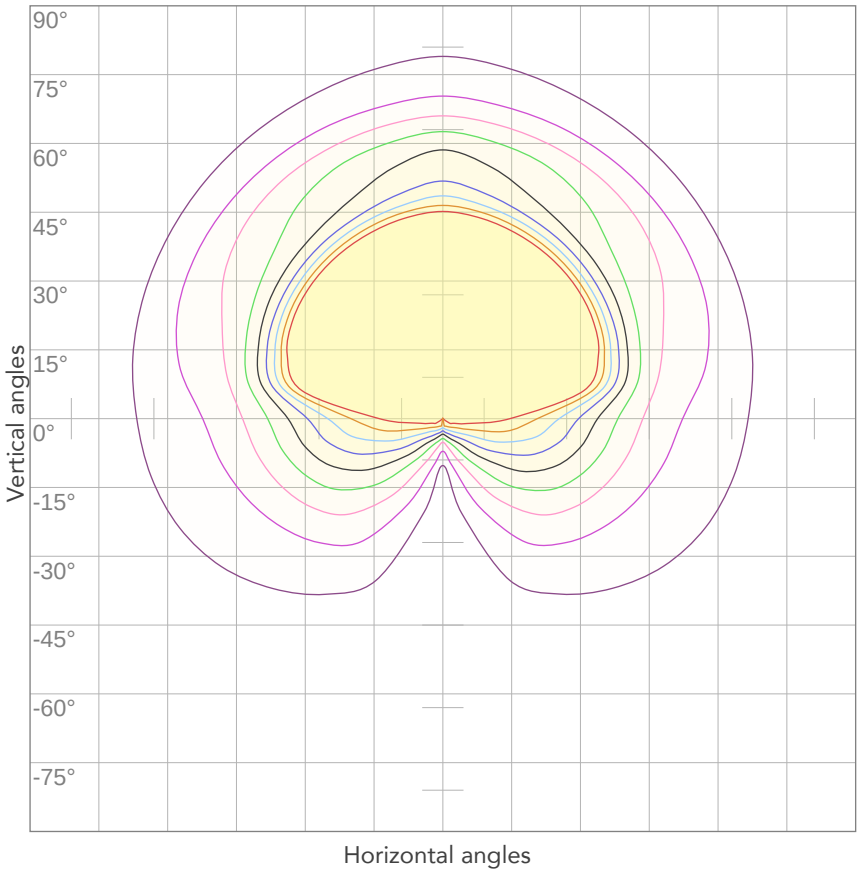


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,955A	180,5W	76lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



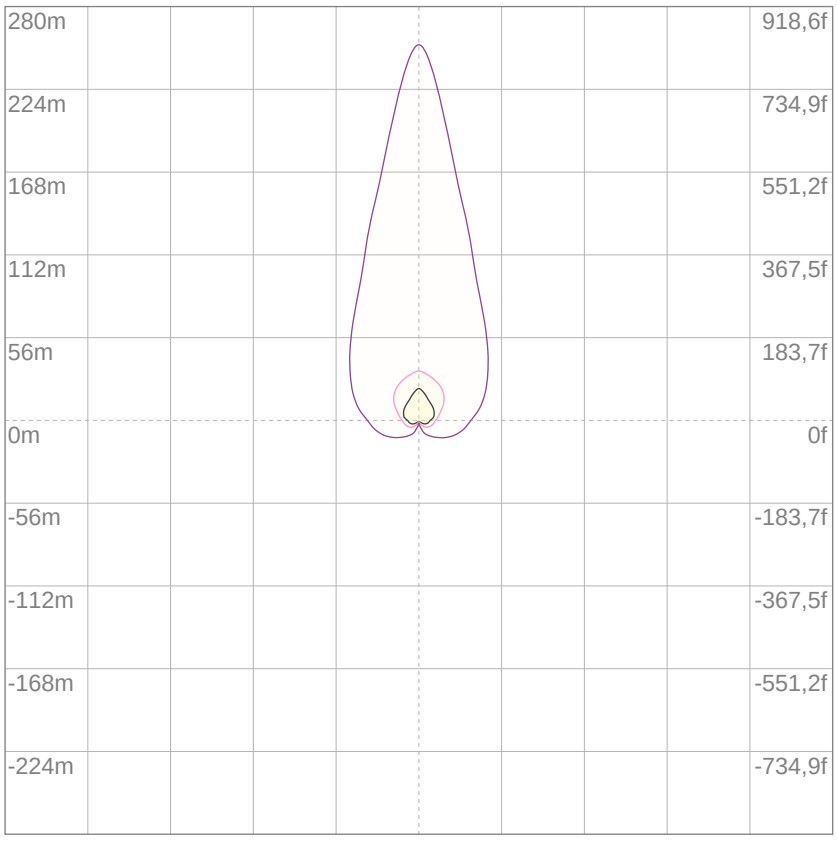
10%	511 cd
20%	1022 cd
30%	1533 cd
40%	2044 cd
50%	2555 cd
60%	3066 cd
70%	3577 cd
80%	4088 cd

Conditions:

Number of c-planes: 4

Candela at center: 5110 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,53 lx
5%	2,55 lx
10%	5,11 lx
30%	15,3 lx
50%	25,5 lx

Conditions:

Number of c-planes: 4

Lux at center: 51,1 lx

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

Total lumen output:

17381 lm

Peak candela output:

21865 cd

Light quality:

CRI: 92,1

Color temperature:

5969 K

PRODUCT NAME:

ECL CYC100

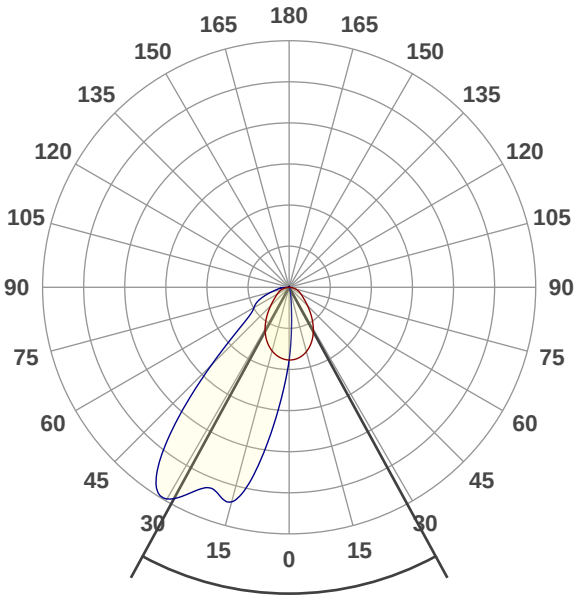
MEASURAMENT CONDITIONS:

Beam angle:
Filter 1060

Target:
5600K

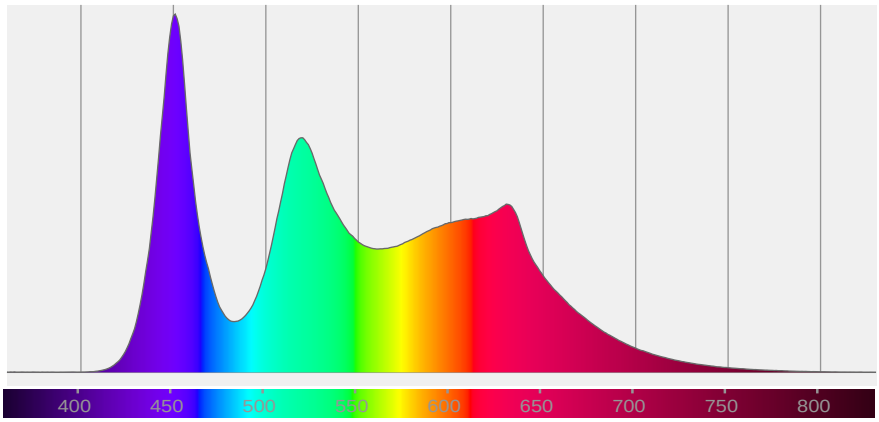
Operator:
Paolo Carvone

Date and time:
23/03/2021 14:37:27

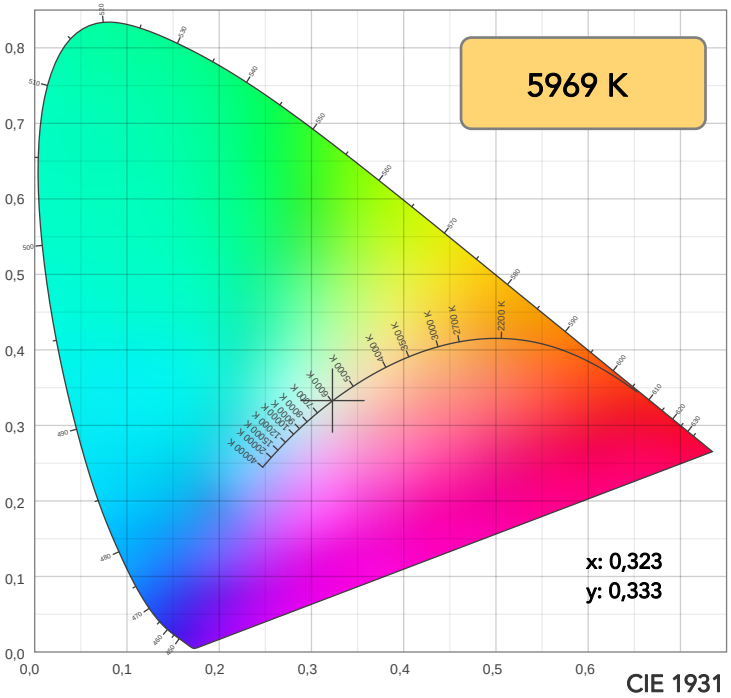


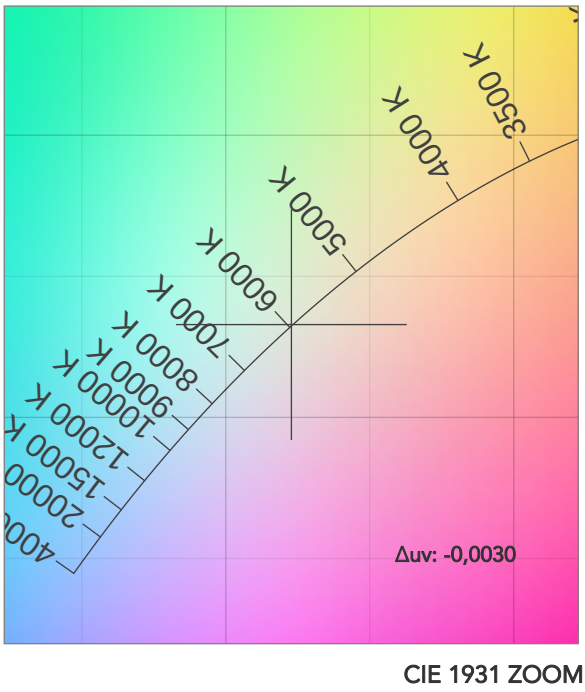
Beam angle 50%: 57,2°
Field angle 10%: 112,7°
Cut off angle 2.5%: 133,4°

Spectra

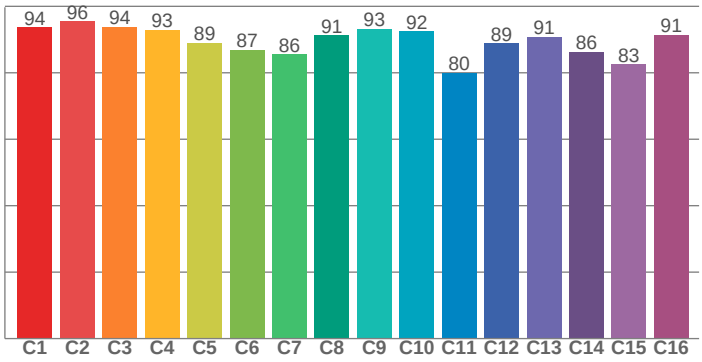


COLOR DETAILS

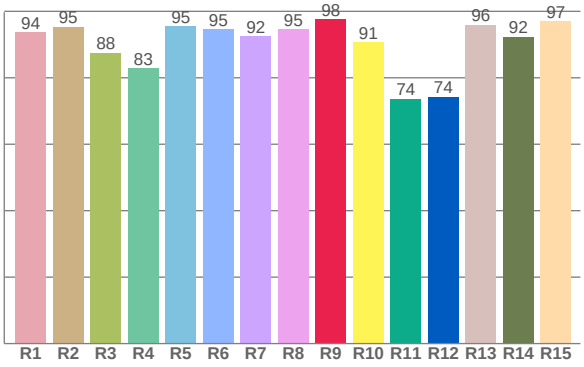




TM30: 89,6



CRI: 92,1 (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
93,8	95,4	87,6	82,8	95,4	94,7	92,4	94,6	97,6	90,6	73,7	74,3	96,0	92,3	97,0

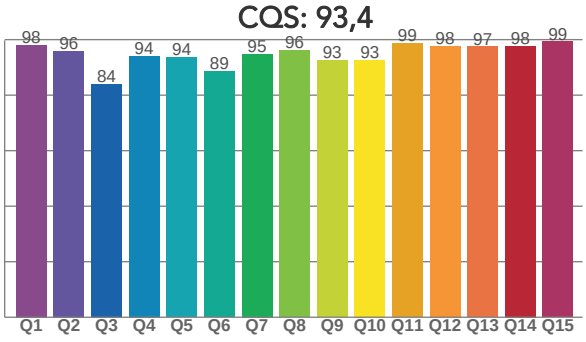
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,7	95,5	93,8	92,8	89,1	86,9	85,5	91,3	93,2	92,5	79,9	88,9	90,9	86,2	82,6	91,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,1	95,9	84,1	94,0	93,6	88,6	94,9	96,2	92,5	92,6	98,7	97,8	97,5	97,8	99,3

CQS: 93,4



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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5969 K	92,1	97,6	89,6	106,7	93,4	87	0,323	0,333	-0,0030

TM30 DETAILS

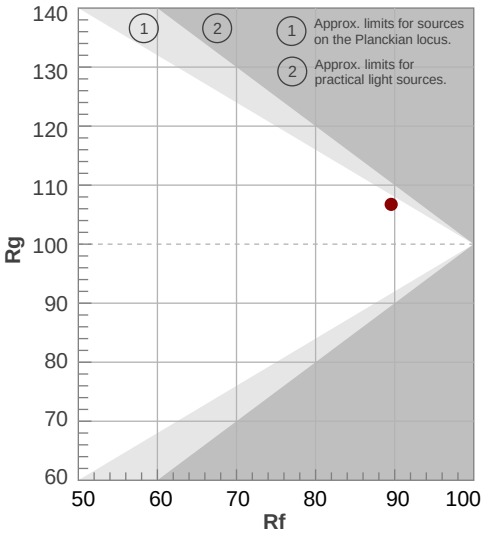
Rf 89,6

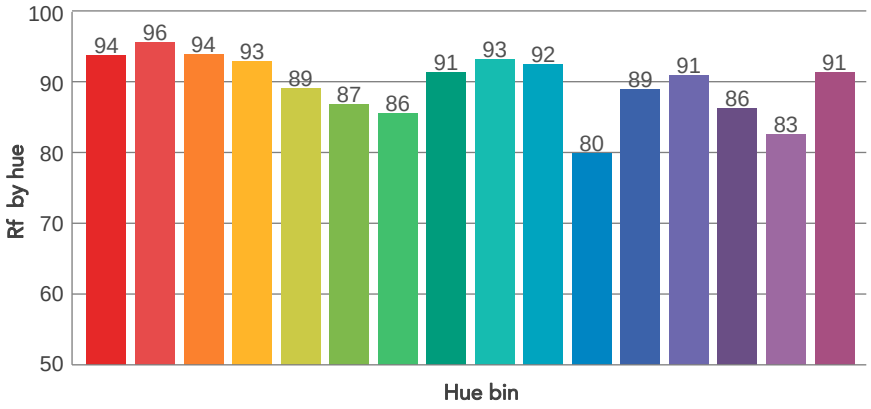
Fidelity index Rf

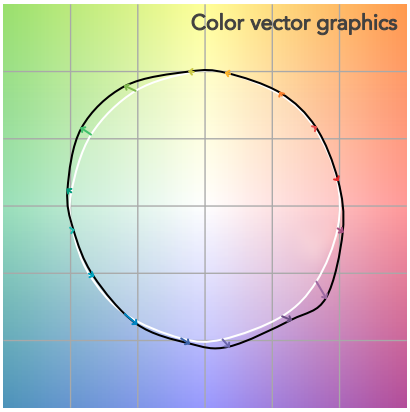
Rg 106,7

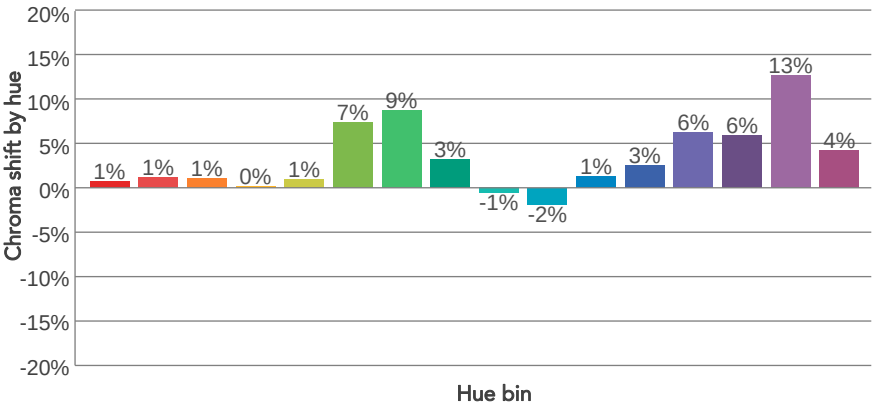
Gammut index

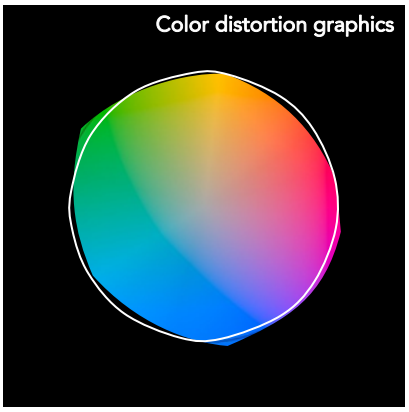
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	94	1%	-2%
2	96	1%	0%
3	94	1%	2%
4	93	0%	3%
5	89	1%	3%
6	87	7%	4%
7	86	9%	0%
8	91	3%	-1%
9	93	-1%	0%
10	92	-2%	3%
11	80	1%	11%
12	89	3%	6%
13	91	6%	4%
14	86	6%	4%
15	83	13%	-6%
16	91	4%	-2%

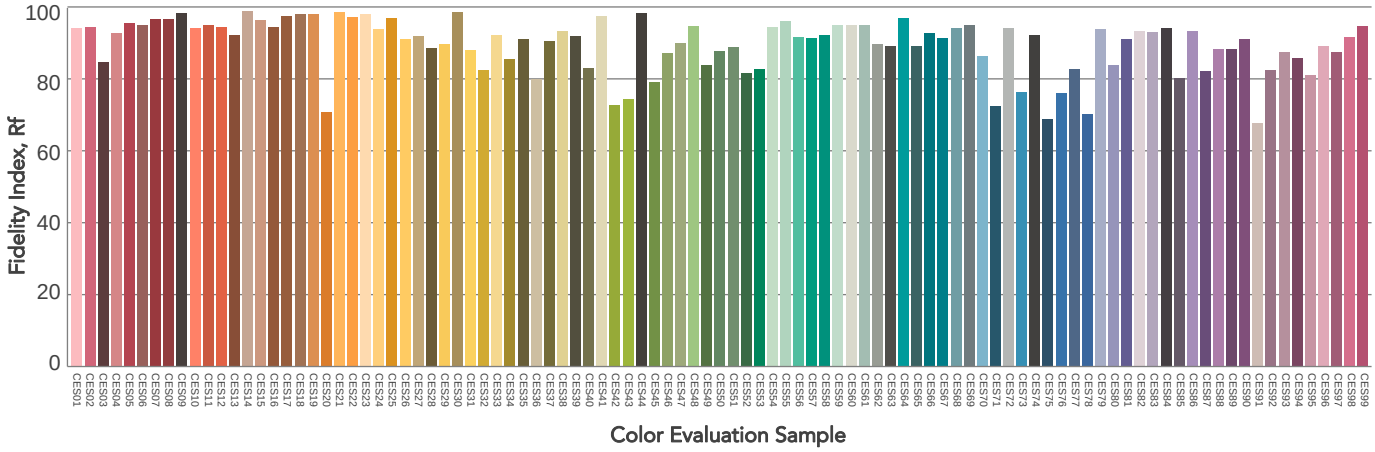












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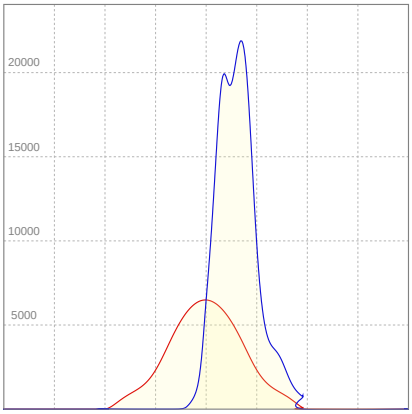
LINEAR DISTRIBUTION DIAGRAM

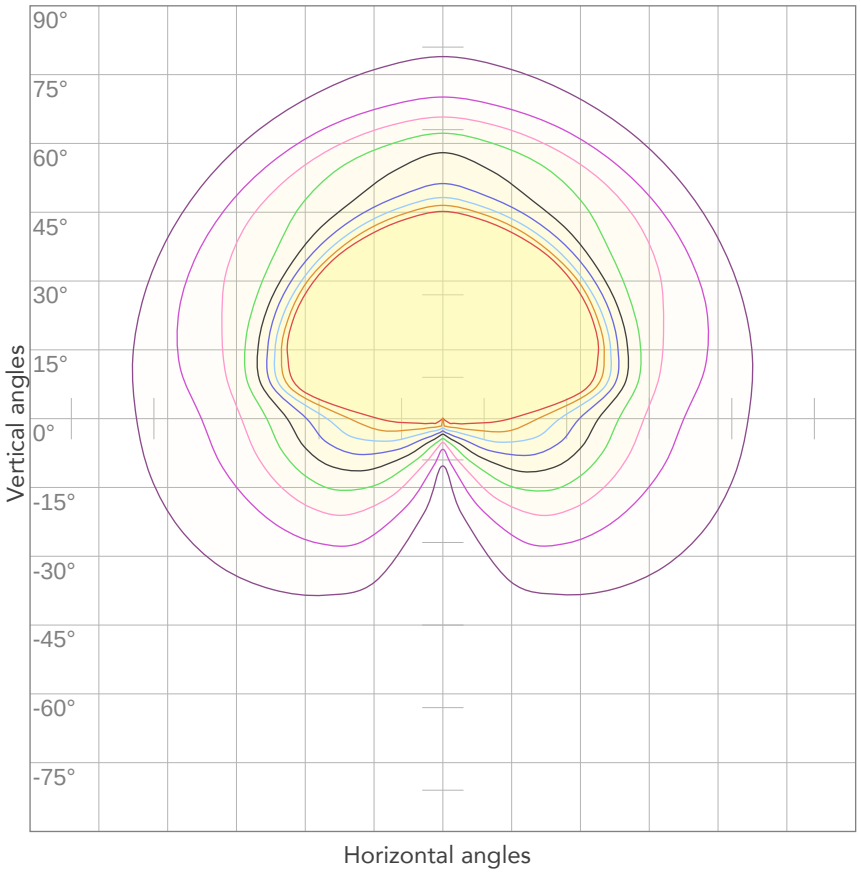


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	1,15A	228,3W	76lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



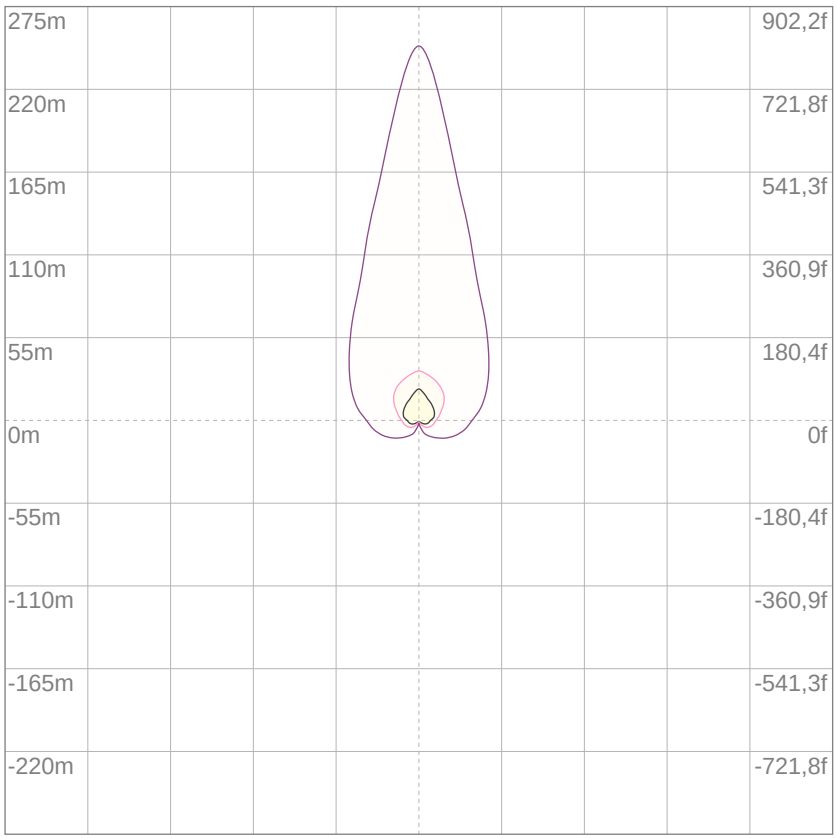
10%	648 cd
20%	1297 cd
30%	1945 cd
40%	2594 cd
50%	3242 cd
60%	3891 cd
70%	4539 cd
80%	5187 cd

Conditions:

Number of c-planes: 4

Candela at center: 6484 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,95 lx
5%	3,24 lx
10%	6,48 lx
30%	19,5 lx
50%	32,4 lx

Conditions:

Number of c-planes: 4

Lux at center: 64,8 lx

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

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Total lumen output:

16902 lm

Peak candela output:

21294 cd

Light quality:

CRI: 92,1

Color temperature:

6470 K

PRODUCT NAME:

ECL CYC100

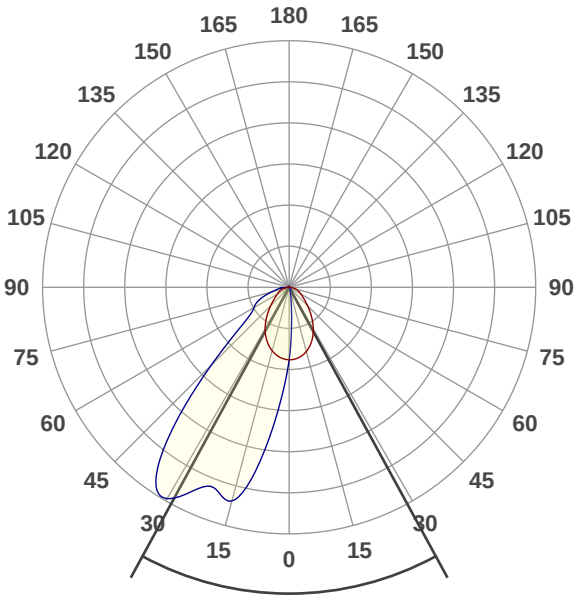
MEASURAMENT CONDITIONS:

Beam angle:
Filter 1060

Target:
6000K

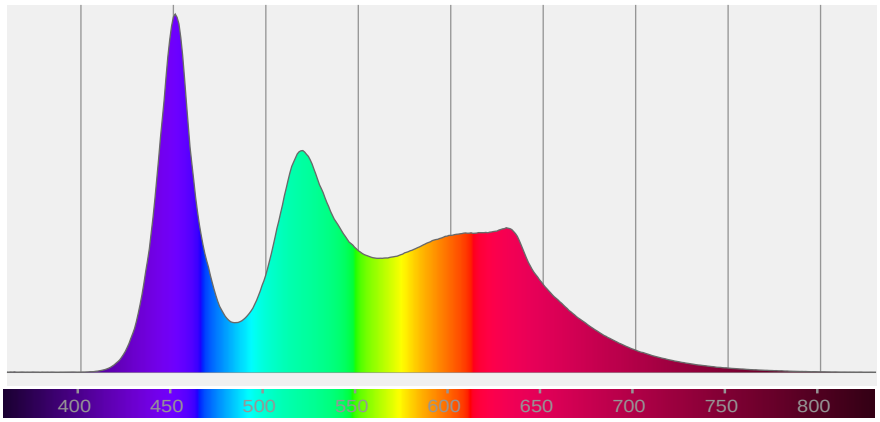
Operator:
Paolo Carvone

Date and time:
23/03/2021 14:40:13

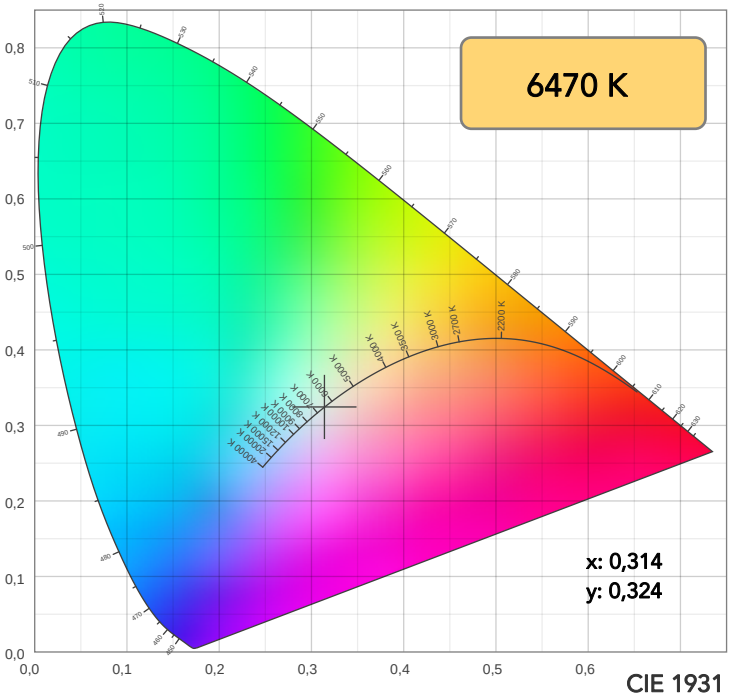


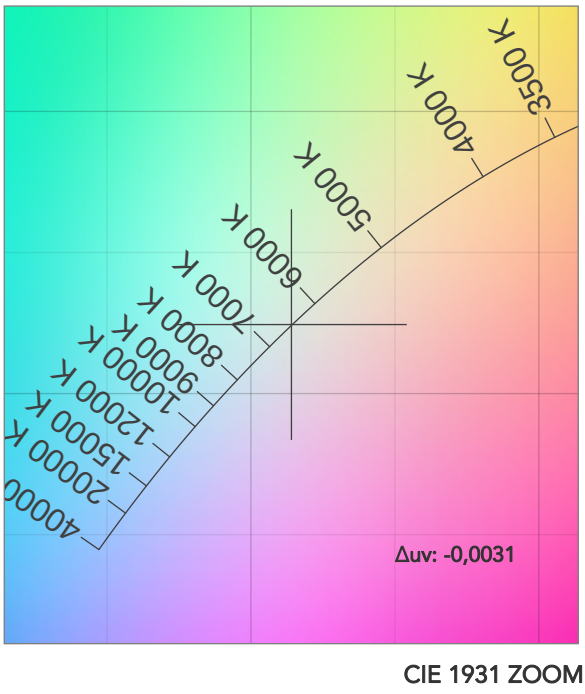
Beam angle 50%: 57,2°
Field angle 10%: 112,6°
Cut off angle 2.5%: 133,4°

Spectra

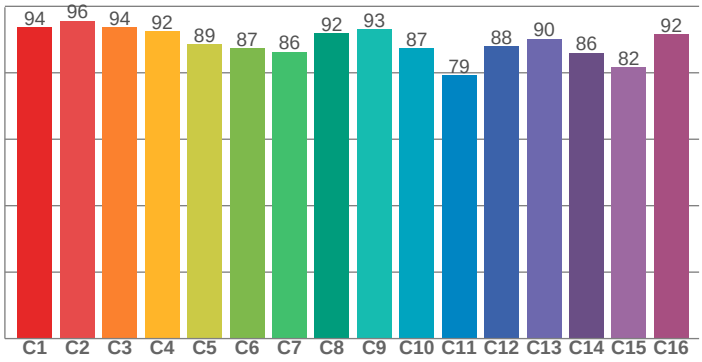


COLOR DETAILS

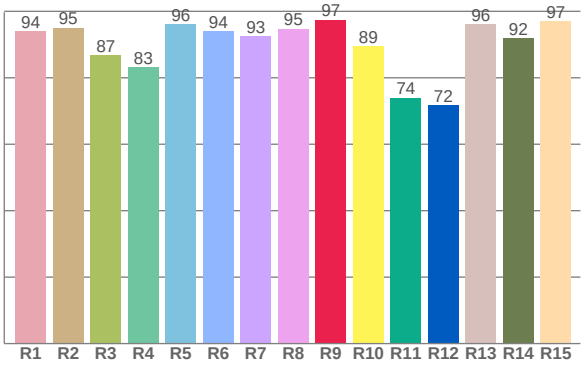




TM30: 89,2



CRI: 92,1 (R1-R8)



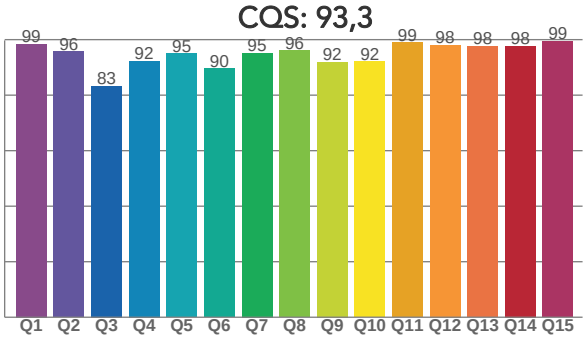
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94,0	95,1	86,9	83,2	96,1	93,9	92,6	94,7	97,4	89,5	74,0	71,8	96,2	92,0	97,0

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,7	95,6	93,7	92,5	88,5	87,3	86,3	91,9	93,1	87,3	79,2	87,9	90,3	85,9	81,6	91,5

CQS: 93,3



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,5	95,7	83,3	92,4	94,9	89,6	95,2	96,0	91,9	92,0	99,0	98,1	97,6	97,7	99,4

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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6470 K	92,1	97,4	89,2	106,3	93,3	88	0,314	0,324	-0,0031

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TM30 DETAILS

PROLiGHTS

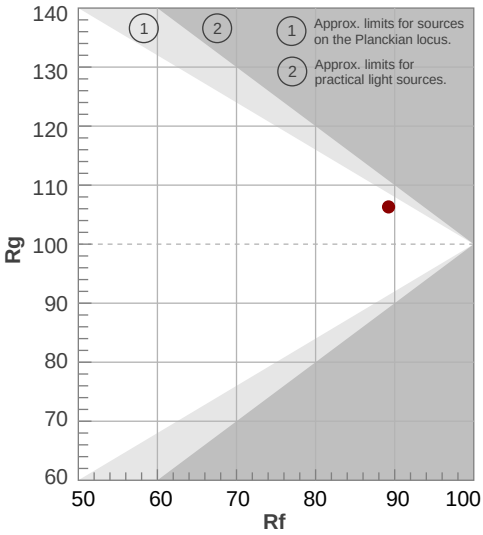
Rf 89,2

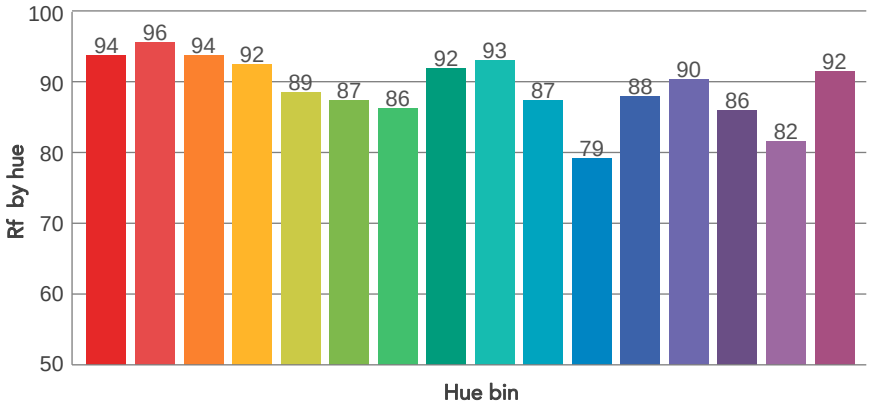
Fidelity index Rf

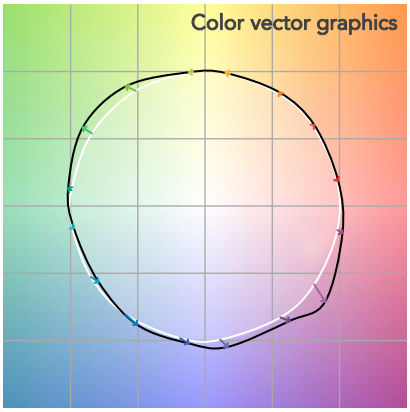
Rg 106,3

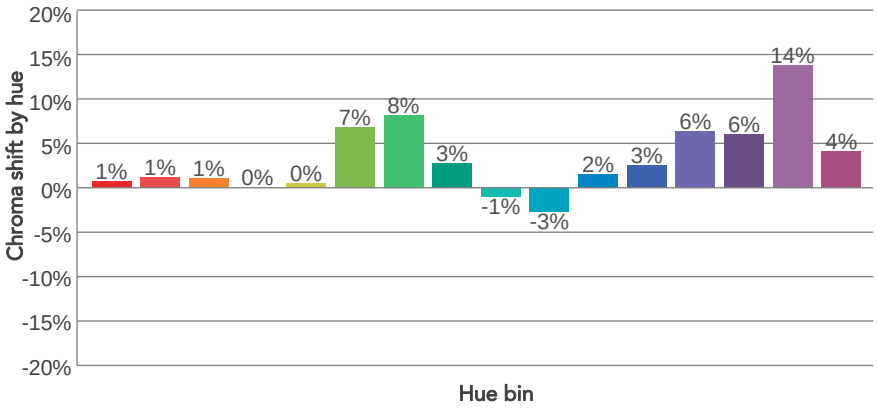
Gammut index

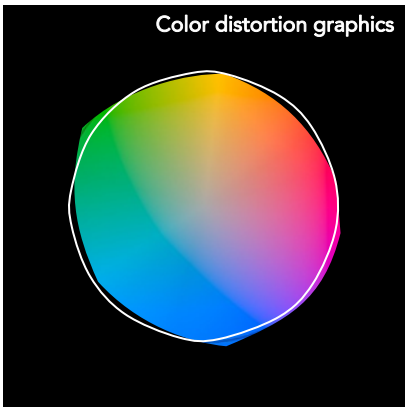
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	94	1%	-2%
2	96	1%	0%
3	94	1%	2%
4	92	0%	3%
5	89	0%	3%
6	87	7%	4%
7	86	8%	0%
8	92	3%	-1%
9	93	-1%	1%
10	87	-3%	6%
11	79	2%	12%
12	88	3%	7%
13	90	6%	4%
14	86	6%	4%
15	82	14%	-6%
16	92	4%	-2%

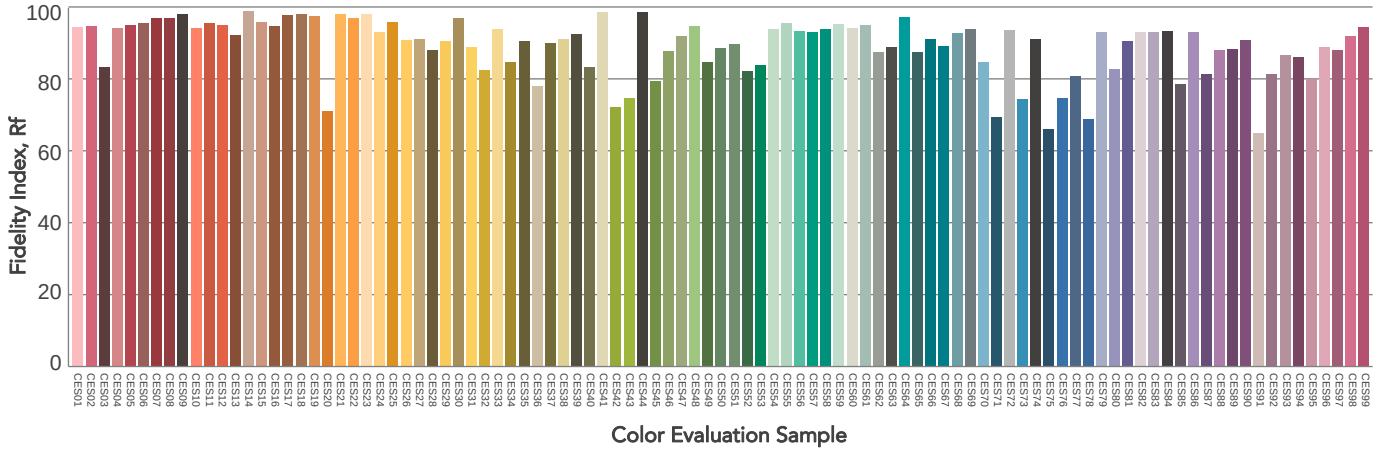












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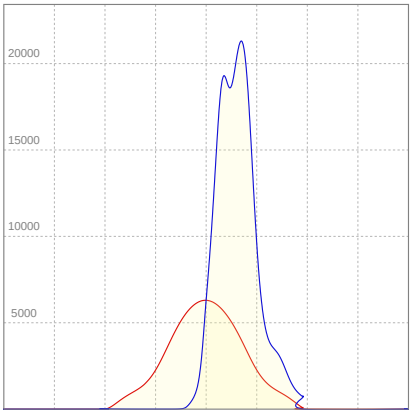
LINEAR DISTRIBUTION DIAGRAM

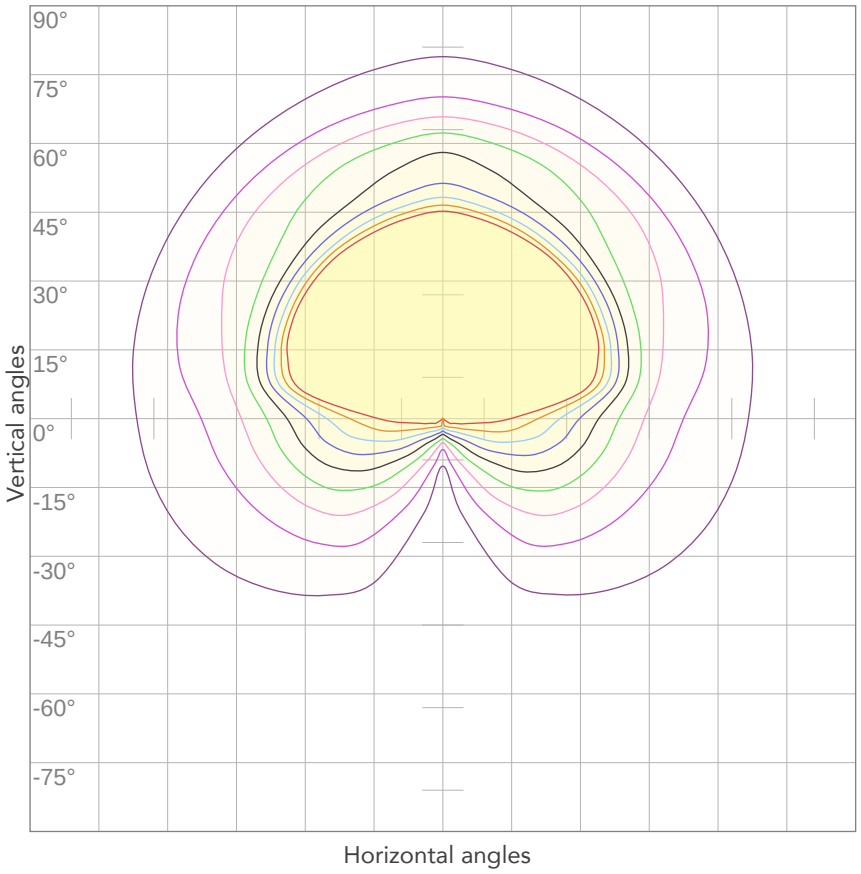


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	1,14A	222,8W	76lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



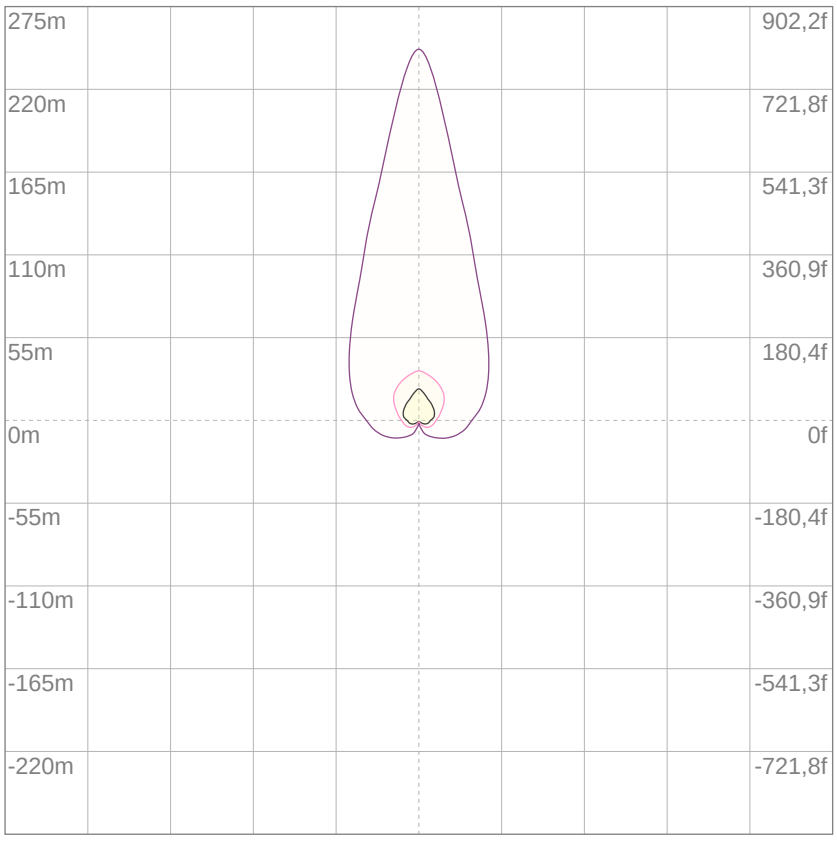
10%	630 cd
20%	1260 cd
30%	1889 cd
40%	2519 cd
50%	3149 cd
60%	3779 cd
70%	4408 cd
80%	5038 cd

Conditions:

Number of c-planes: 4

Candela at center: 6298 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

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

Conditions:

Number of c-planes: 4

Lux at center: 63,0 lx

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

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