Photometric Test Report

ECLFWVW PRL1530

High quality Variable White LED ellipsoidal,

with linear CCT 2.700K – 5.600K

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:

7926 lm

Peak candela output:

45113 cd

Light quality:

CRI: 95,5

Color temperature:

3939 K

PRODUCT NAME:

ECLFWVW

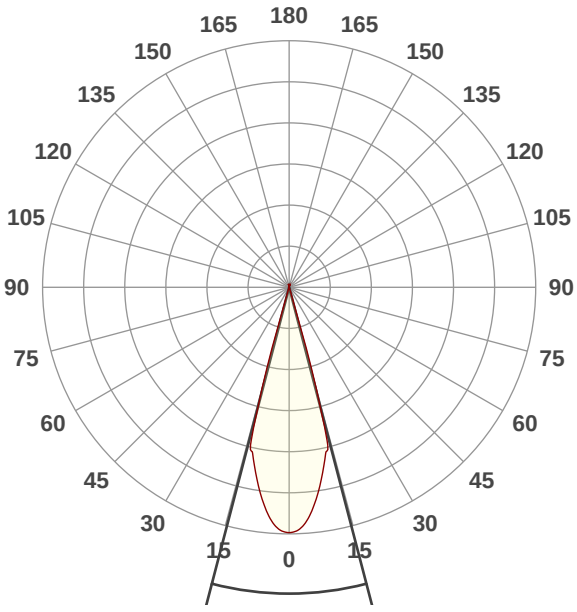
MEASURAMENT CONDITIONS:

Beam angle:
PRL15-30 Max Zoom

Target:
Full On

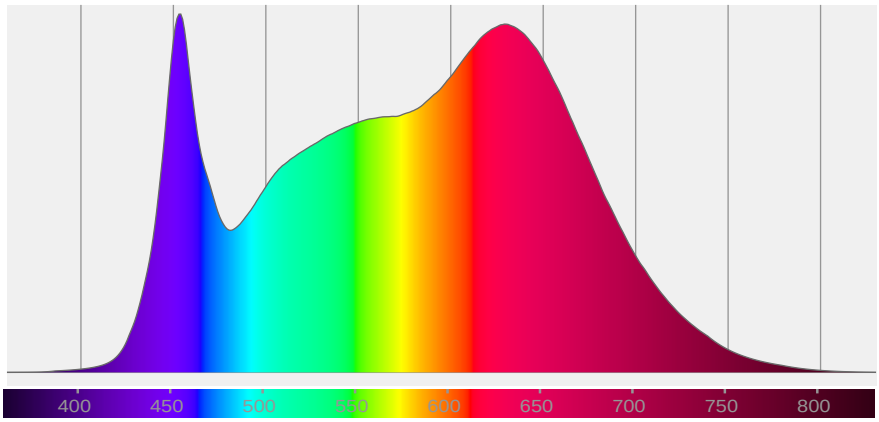
Operator:
Paolo Carvone

Date and time:
11/06/2021 14:32:49

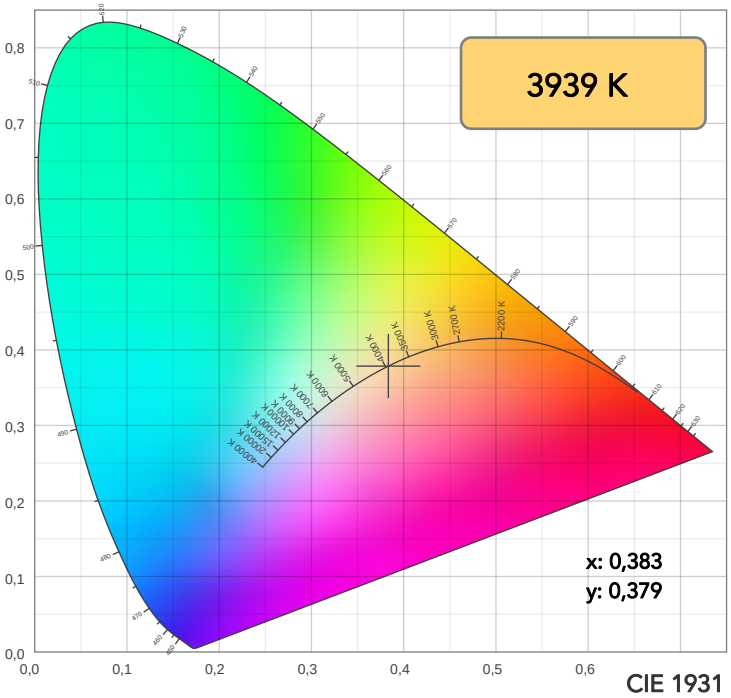


Beam angle 50%: 29,2°
Field angle 10%: 33°
Cut off angle 2.5%: 33,7°

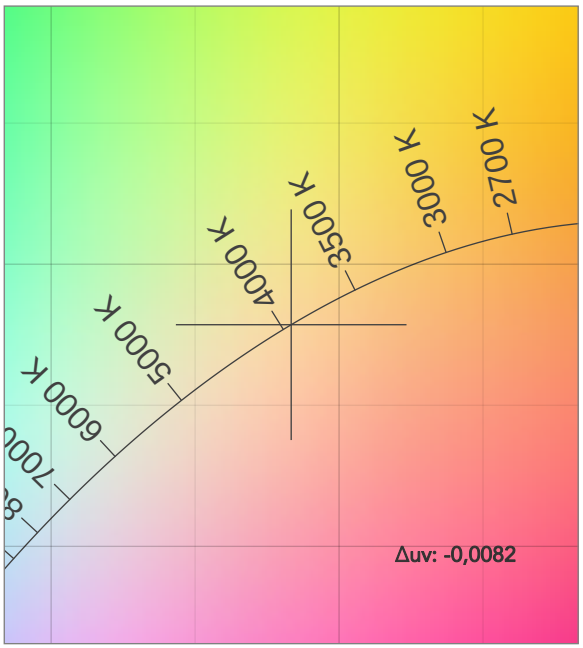
Spectra



COLOR DETAILS

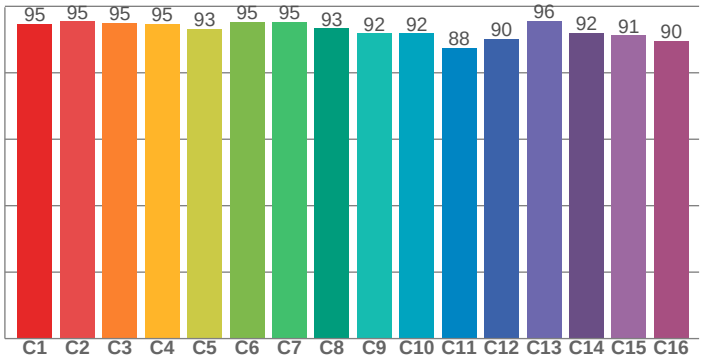


CIE 1931

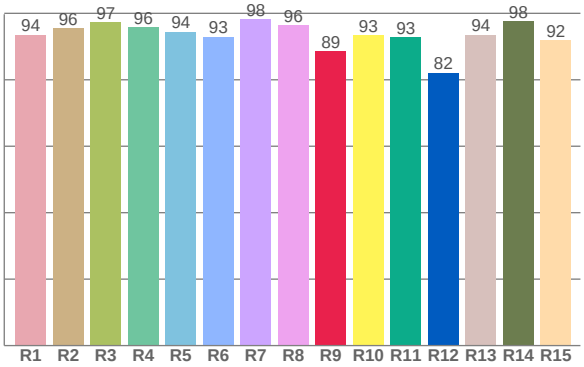


CIE 1931 ZOOM

TM30: 92,9



CRI: 95,5 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,6	95,5	97,3	95,8	94,5	93,0	98,2	96,3	88,5	93,4	92,8	82,2	93,6	97,6	92,0

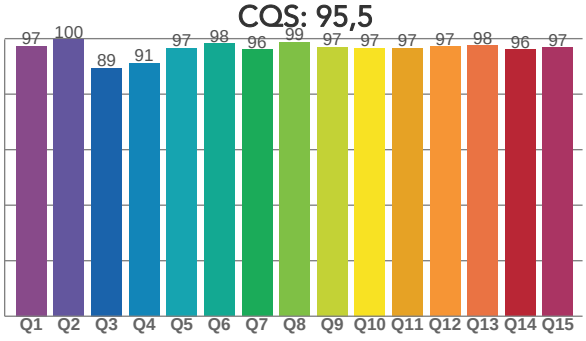
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,7	95,5	95,1	94,7	93,2	95,3	95,3	93,4	91,9	91,8	87,5	90,2	95,5	92,0	91,2	89,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,4	99,6	89,4	91,1	96,7	98,2	96,0	98,7	97,1	96,6	96,6	97,2	97,5	96,1	96,8

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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3939 K	95,5	88,5	92,9	103,1	95,5	98	0,383	0,379	-0,0082

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Via A. Olivetti snc
04026 - Minturno (LT) ITALY
Tel: +39 0771 72190

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TM30 DETAILS

PROLiGHTS

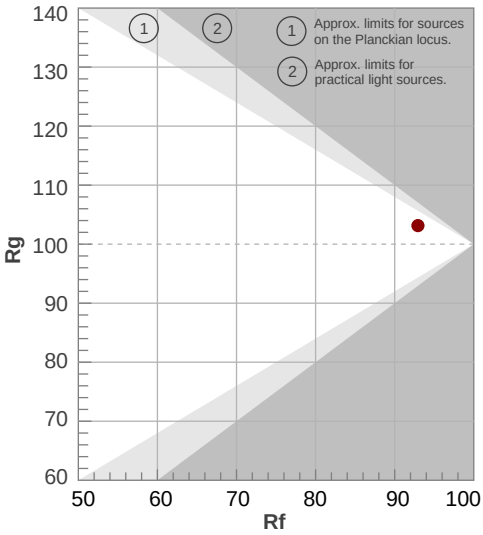
Rf 92,9

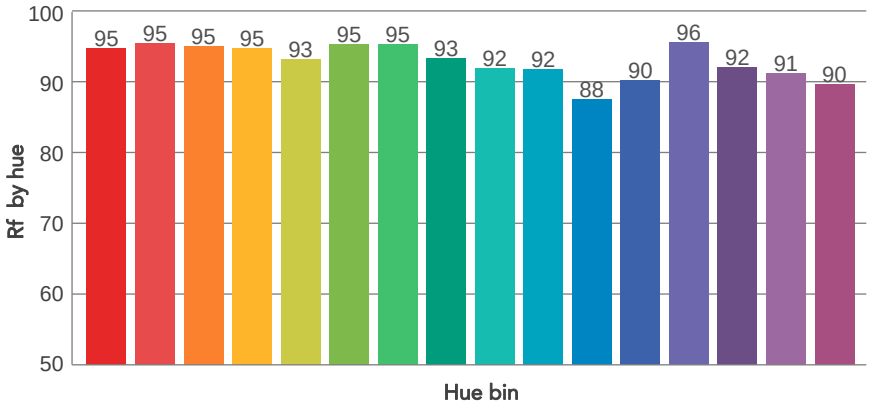
Fidelity index Rf

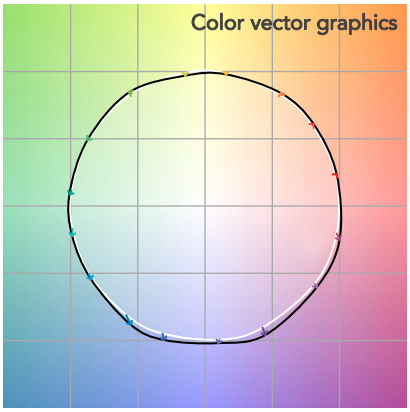
Rg 103,1

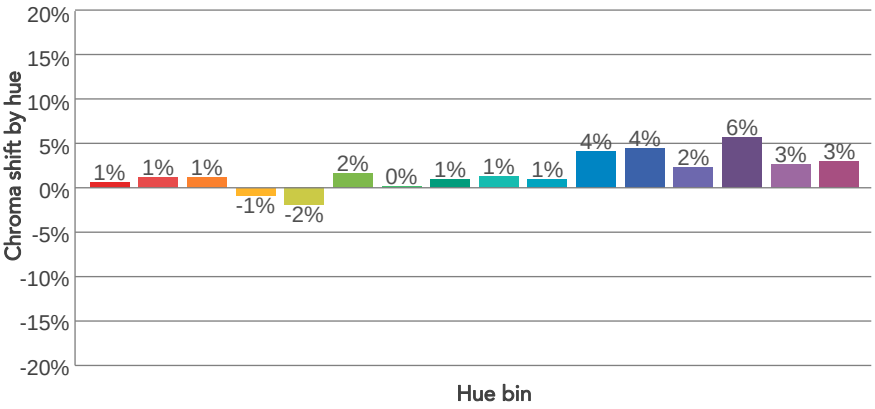
Gammut index

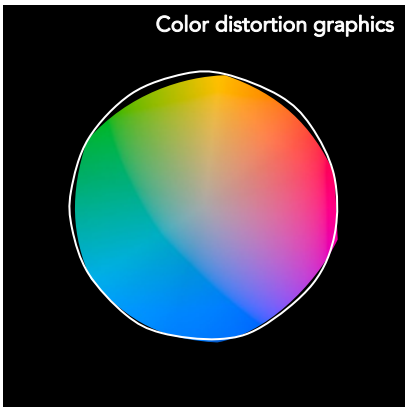
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	95	1%	1%
2	95	1%	0%
3	95	1%	1%
4	95	-1%	0%
5	93	-2%	0%
6	95	2%	1%
7	95	0%	2%
8	93	1%	3%
9	92	1%	5%
10	92	1%	4%
11	88	4%	7%
12	90	4%	2%
13	96	2%	-1%
14	92	6%	-1%
15	91	3%	-1%
16	90	3%	-4%

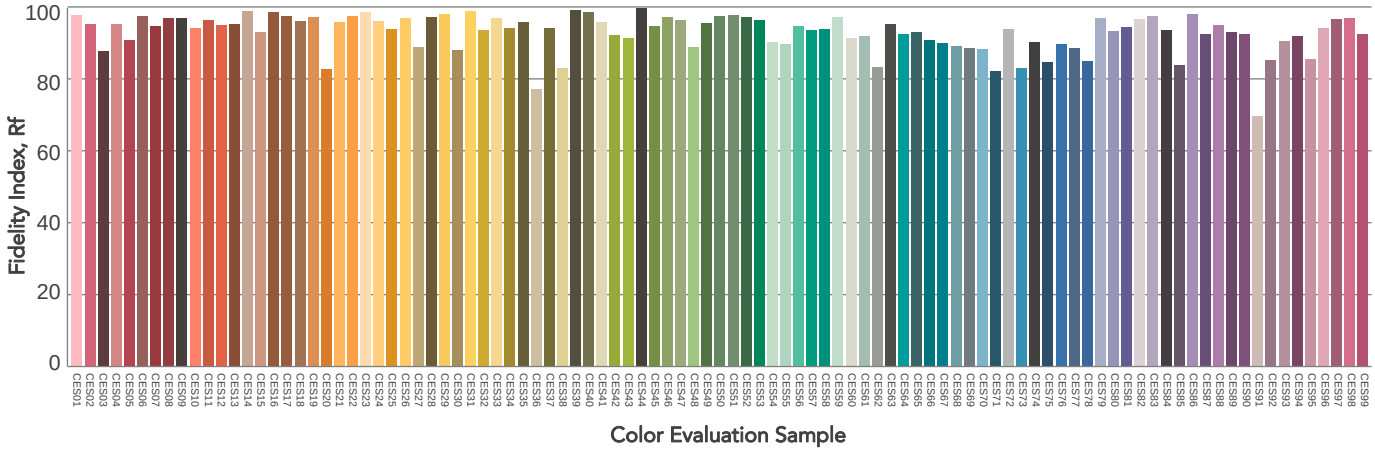












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04026 - Minturno (LT) ITALY
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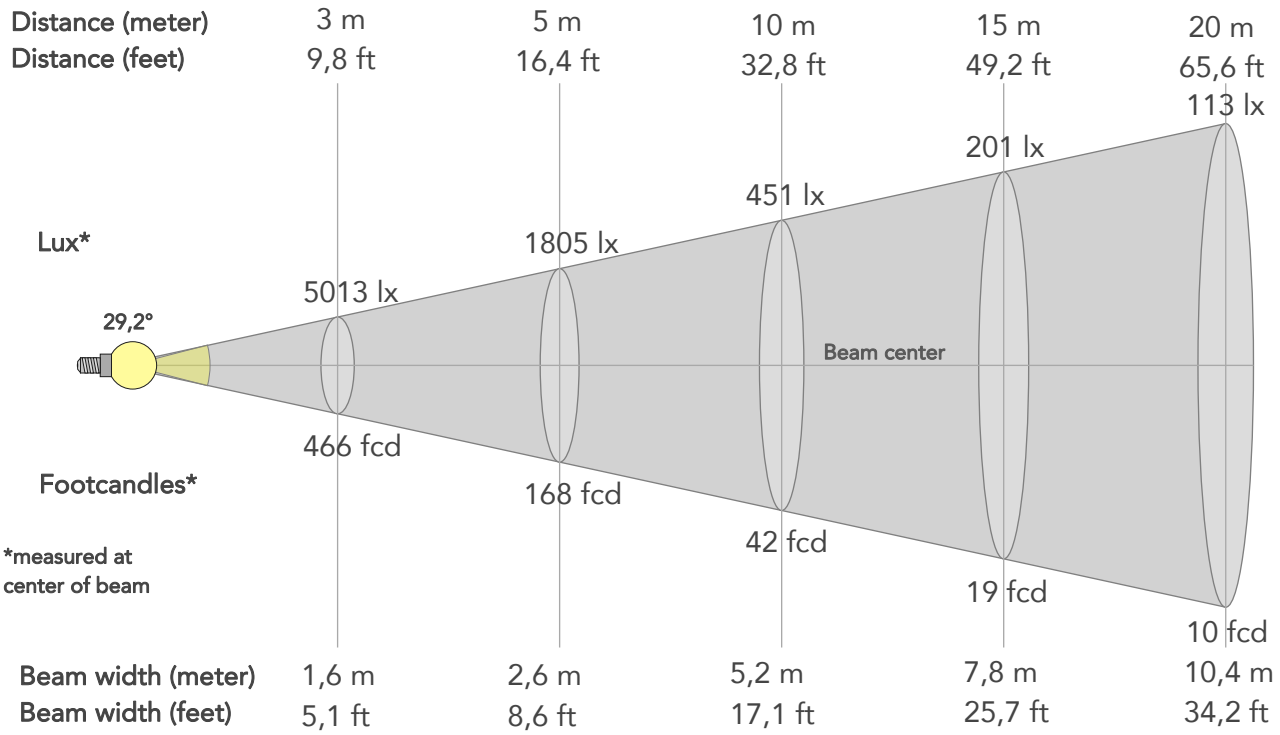
BEAM DETAILS

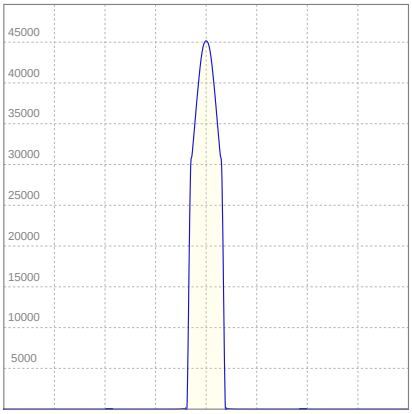
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
29,2°	33°	33,7°	100,0%	100,0%



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	45113lx	11278lx	5013lx	2820lx	1805lx	802lx	451lx	201lx	113lx	72lx	50lx	28lx	18lx
Footcand.	4191fcd	1048fcd	466fcd	262fcd	168fcd	75fcd	42fcd	19fcd	10fcd	7fcd	5fcd	3fcd	2fcd
Beam wid.	0,5m	1m	1,6m	2,1m	2,6m	3,9m	5,2m	7,8m	10,4m	13m	15,6m	20,9m	26,1m
Beam wid.	1,7ft	3,4ft	5,1ft	6,8ft	8,6ft	12,8ft	17,1ft	25,7ft	34,2ft	42,8ft	51,3ft	68,4ft	85,5ft

LINEAR DISTRIBUTION DIAGRAM



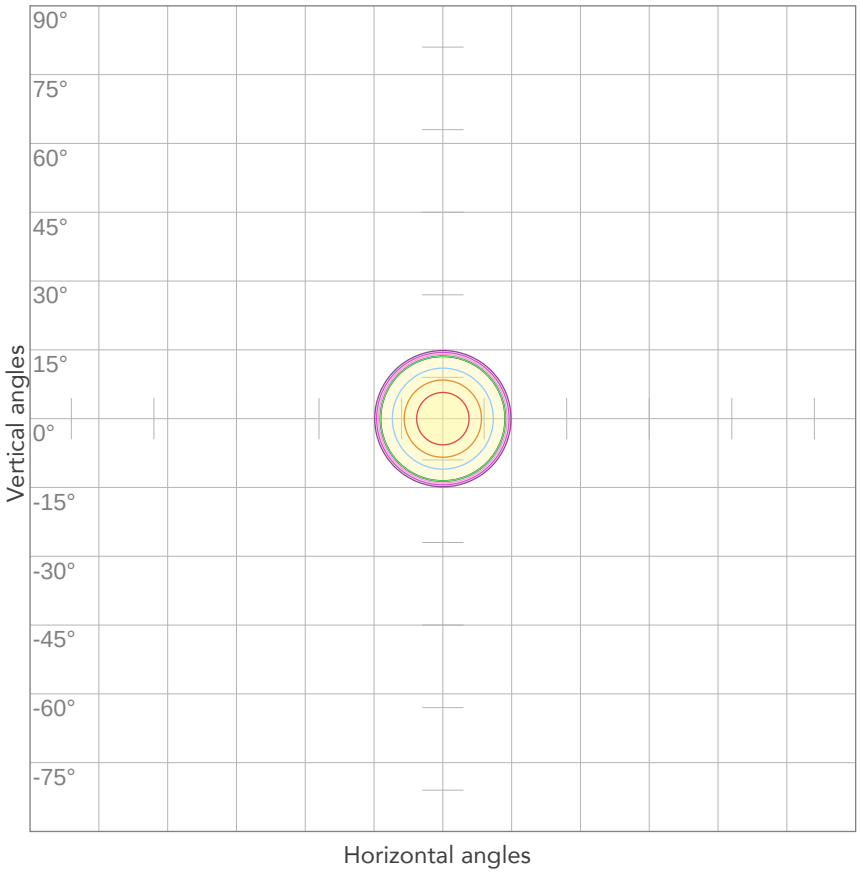
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	1,19A	261,2W	30lm/W

Power Fc
0,97

ISO DIAGRAMS

ISO CANDELA DIAGRAM



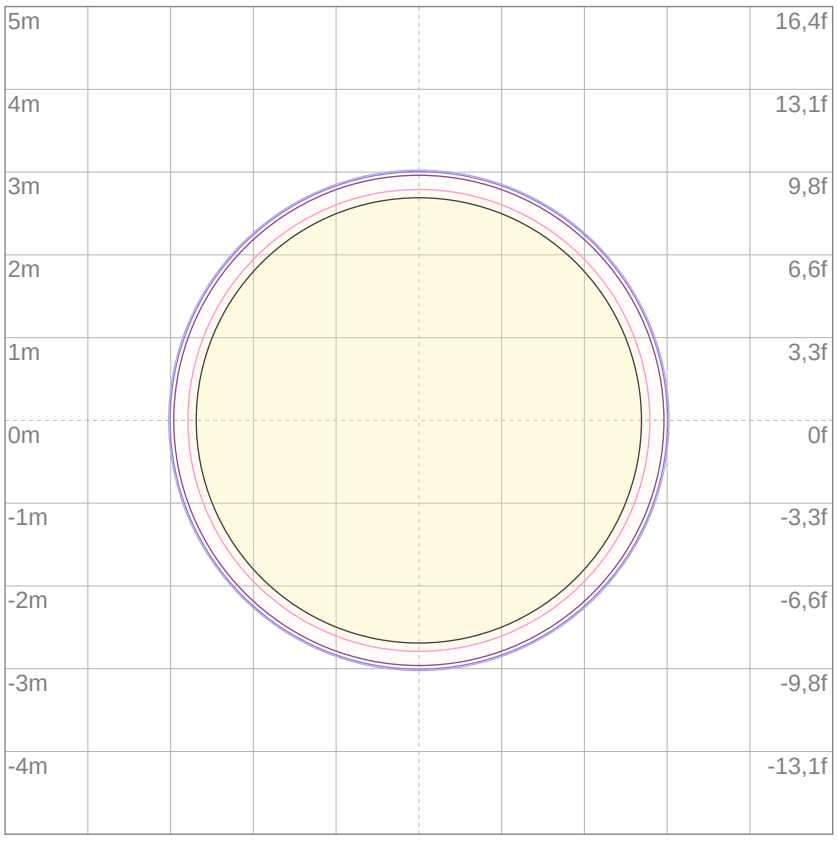
10%	4511 cd
20%	9023 cd
30%	13534 cd
40%	18045 cd
50%	22557 cd
60%	27068 cd
70%	31579 cd
80%	36090 cd

Conditions:

Number of c-planes: 2

Candela at center: 45113 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	13,5 lx
5%	22,6 lx
10%	45,1 lx
30%	135 lx
50%	226 lx

Conditions:

Number of c-planes: 2

Lux at center: 451 lx

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

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Total lumen output:

6509 lm

Peak candela output:

174670 cd

Light quality:

CRI: 95,5

Color temperature:

3945 K

PRODUCT NAME:

ECLFWVW

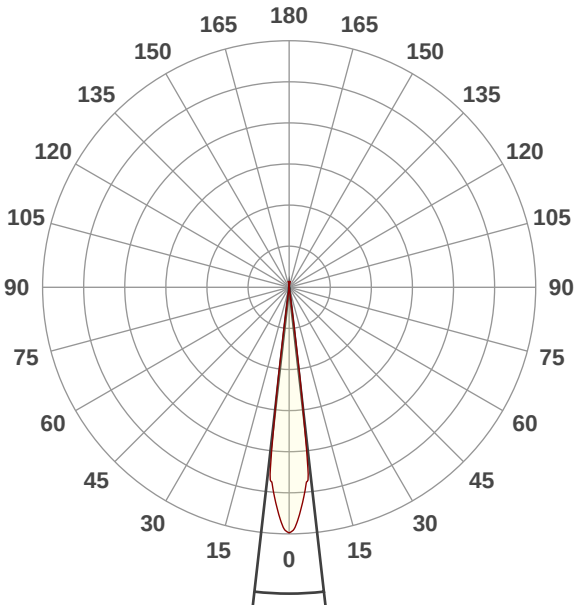
MEASURAMENT CONDITIONS:

Beam angle:
PRL15-30 Min Zoom

Target:
Full On

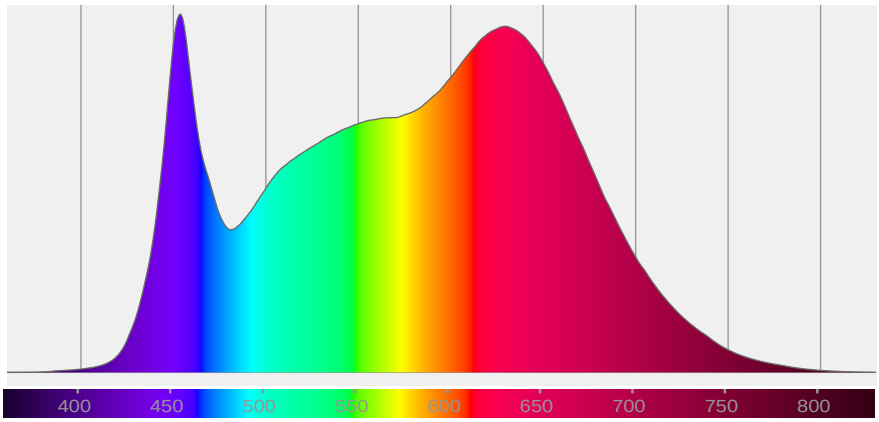
Operator:
Paolo Carvone

Date and time:
11/06/2021 14:27:38

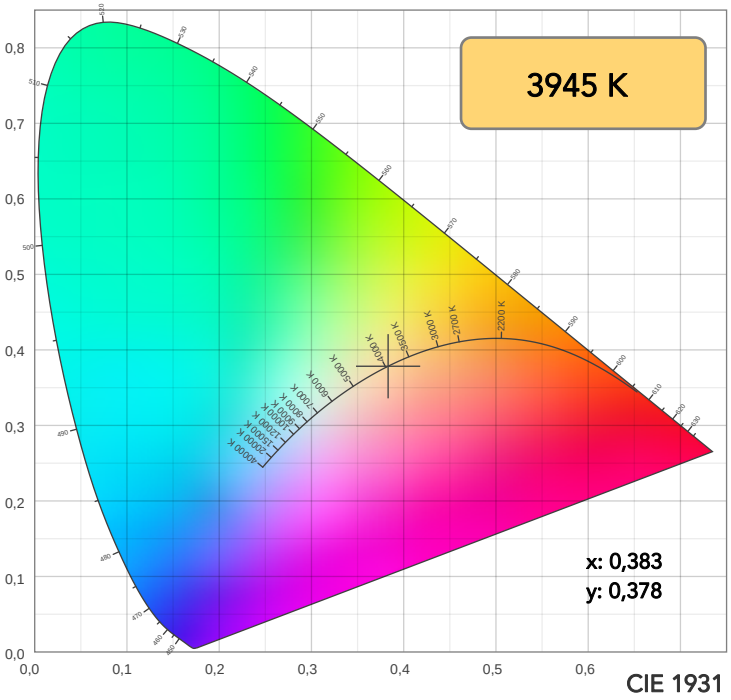


Beam angle 50%: 13°
Field angle 10%: 15,1°
Cut off angle 2.5%: 15,5°

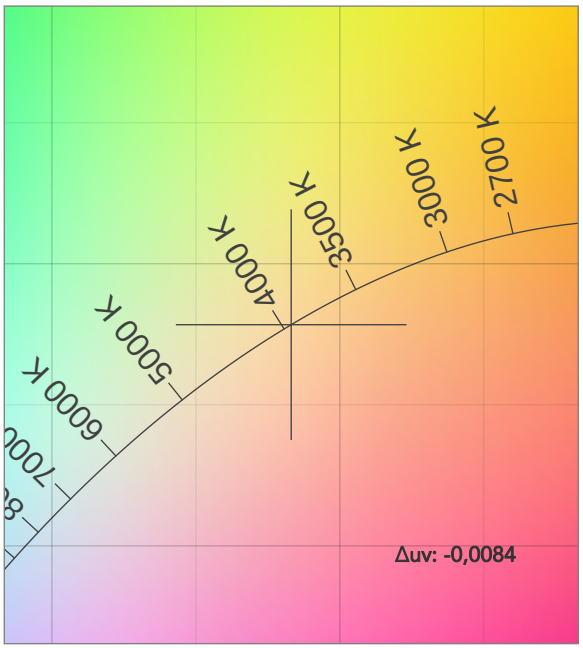
Spectra



COLOR DETAILS

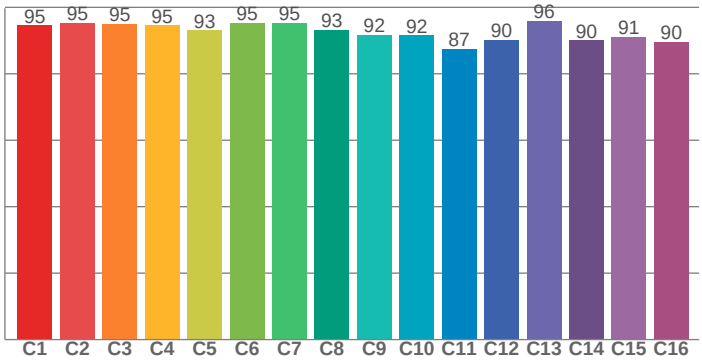


CIE 1931

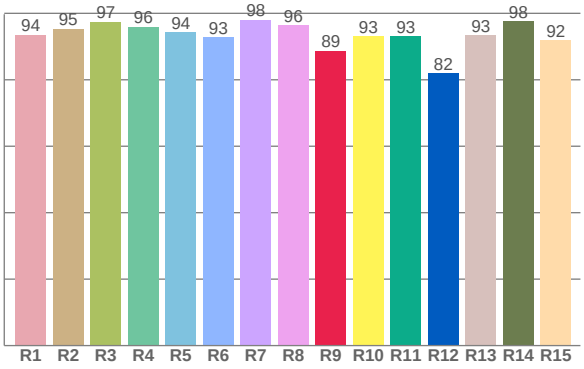


CIE 1931 ZOOM

TM30: 92,8



CRI: 95,5 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,5	95,4	97,5	96,0	94,4	92,8	98,1	96,5	88,7	93,2	93,0	81,9	93,5	97,7	91,9

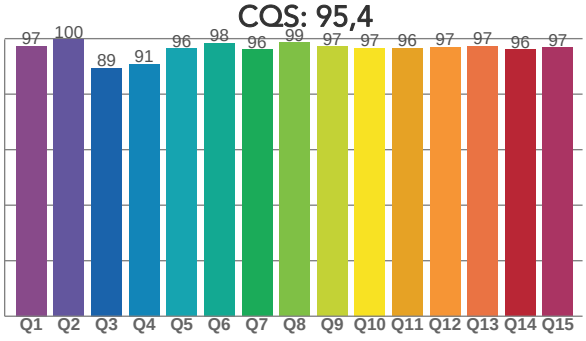
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,6	95,3	95,0	94,6	93,1	95,3	95,3	93,3	91,7	91,5	87,4	90,2	96,0	90,0	91,2	89,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,3	99,7	89,4	90,9	96,4	98,4	96,0	98,6	97,1	96,6	96,5	97,0	97,3	96,0	96,7

CQS: 95,4



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
3945 K	95,5	88,7	92,8	103,2	95,4	98	0,383	0,378	-0,0084

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Via A. Olivetti snc
04026 - Minturno (LT) ITALY
Tel: +39 0771 72190

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TM30 DETAILS

PROLiGHTS

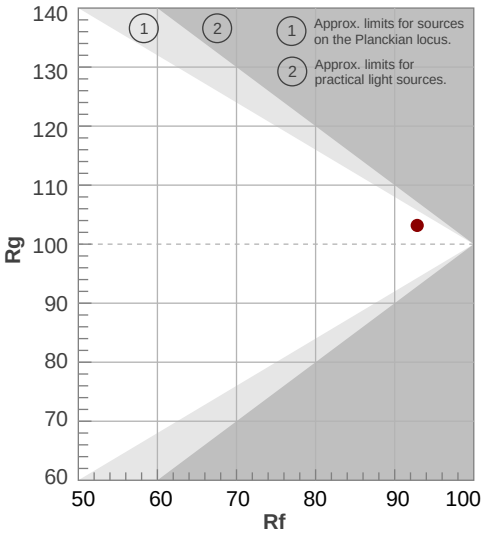
Rf 92,8

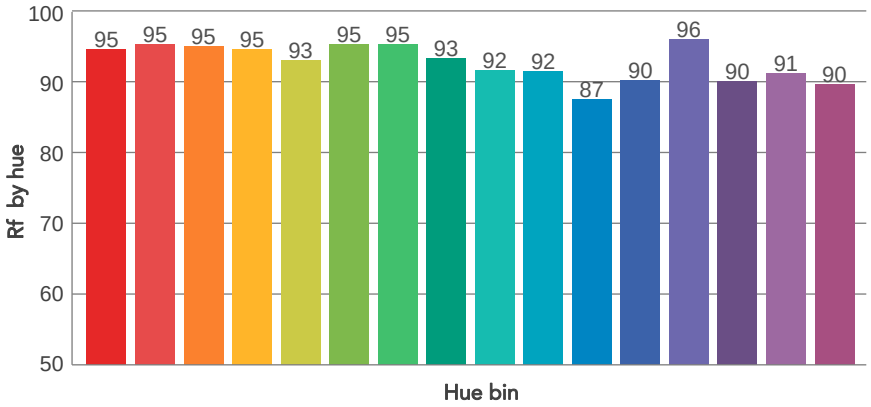
Fidelity index Rf

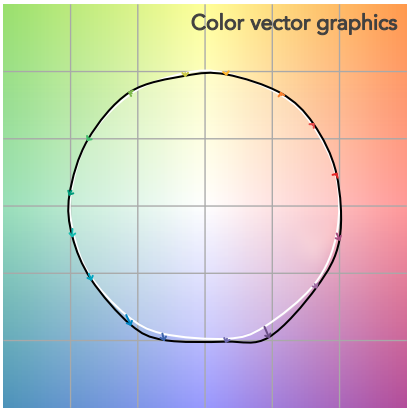
Rg 103,2

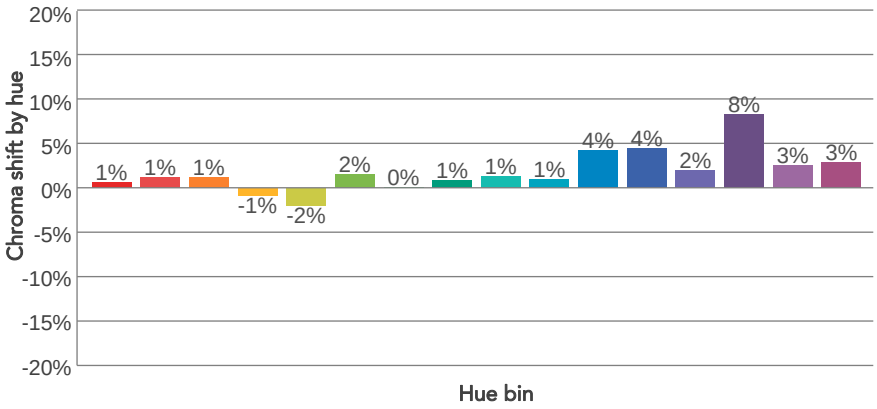
Gammut index

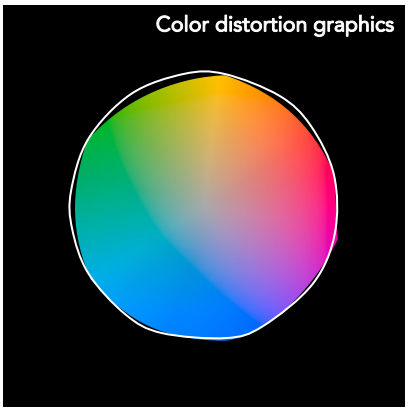
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	95	1%	1%
2	95	1%	0%
3	95	1%	1%
4	95	-1%	0%
5	93	-2%	0%
6	95	2%	1%
7	95	0%	2%
8	93	1%	3%
9	92	1%	5%
10	92	1%	5%
11	87	4%	7%
12	90	4%	2%
13	96	2%	-1%
14	90	8%	-2%
15	91	3%	-1%
16	90	3%	-4%

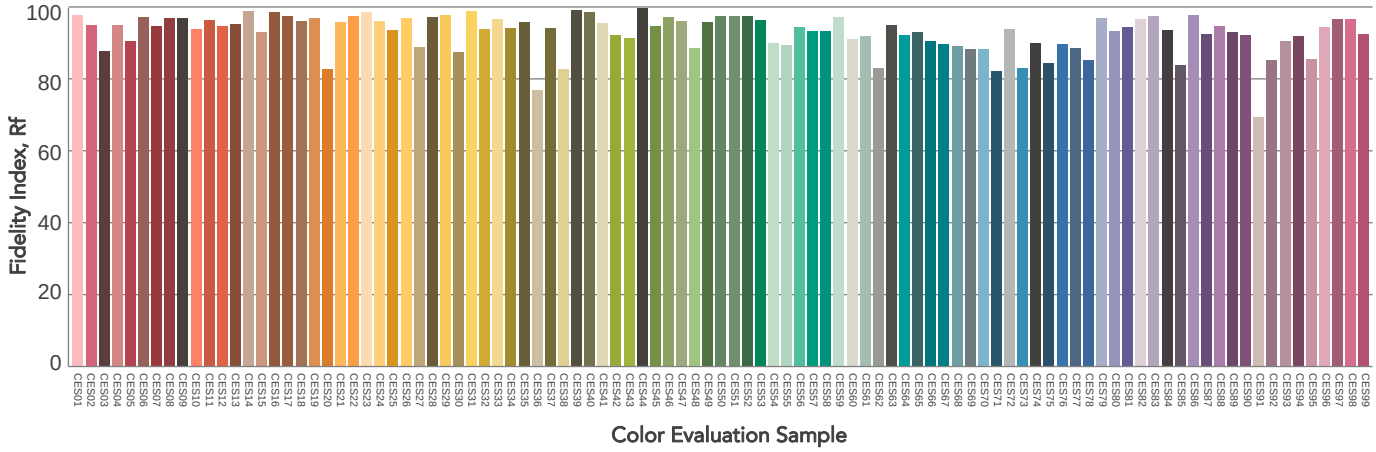












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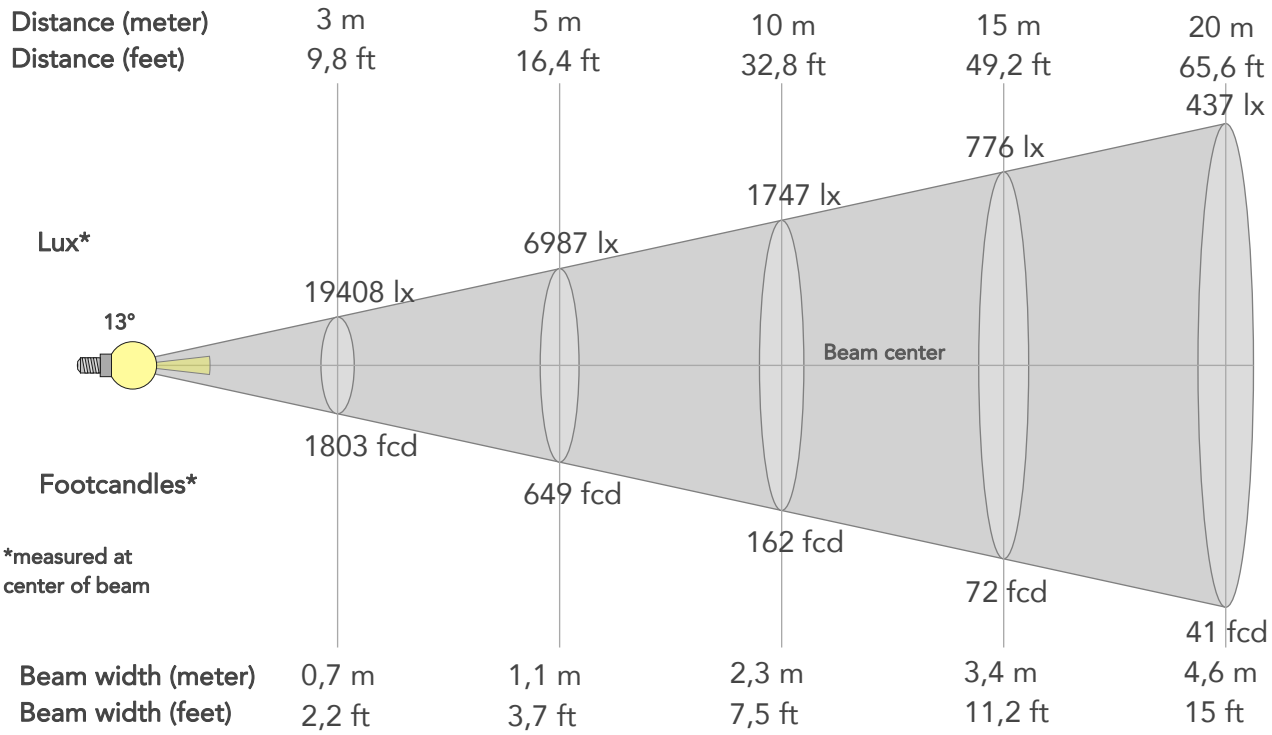
BEAM DETAILS

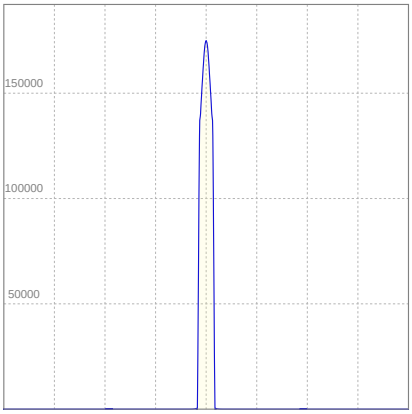
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
13°	15,1°	15,5°	100,0%	100,0%



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	174670lx	43667lx	19408lx	10917lx	6987lx	3105lx	1747lx	776lx	437lx	279lx	194lx	109lx	70lx
Footcand.	16227fcd	4057fcd	1803fcd	1014fcd	649fcd	288fcd	162fcd	72fcd	41fcd	26fcd	18fcd	10fcd	6fcd
Beam wid.	0,2m	0,5m	0,7m	0,9m	1,1m	1,7m	2,3m	3,4m	4,6m	5,7m	6,8m	9,1m	11,4m
Beam wid.	0,8ft	1,5ft	2,2ft	3ft	3,7ft	5,6ft	7,5ft	11,2ft	15ft	18,7ft	22,5ft	30ft	37,4ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
228V	1,18A	259,3W	25lm/W

Power Fc
0,97

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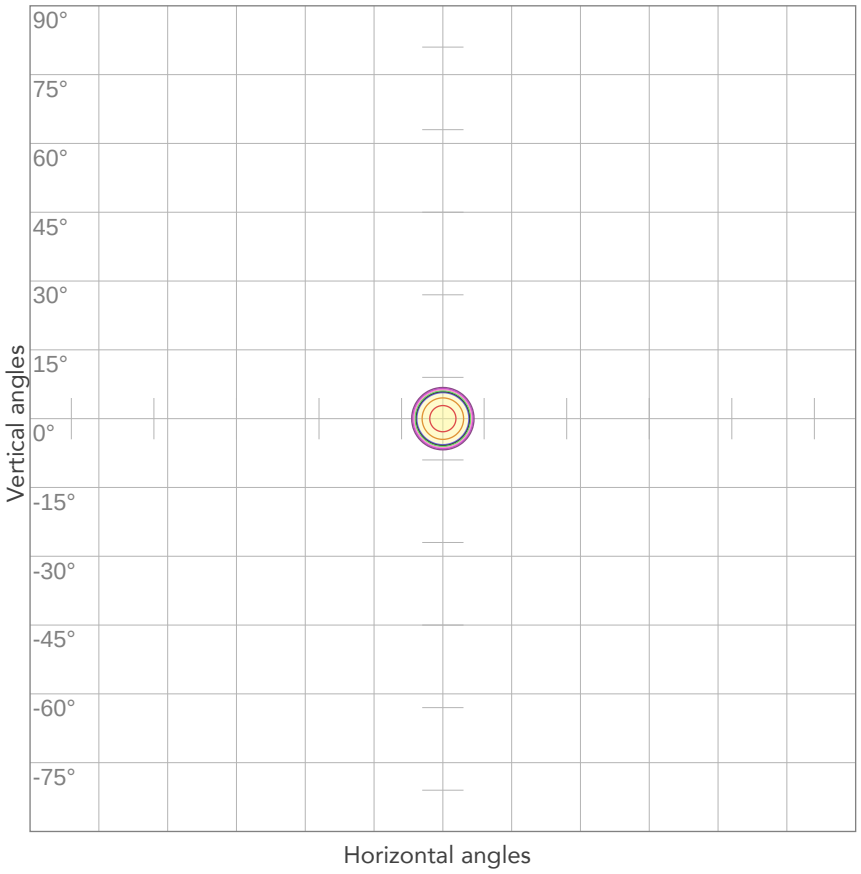
ISO DIAGRAMS

ISO CANDELA DIAGRAM



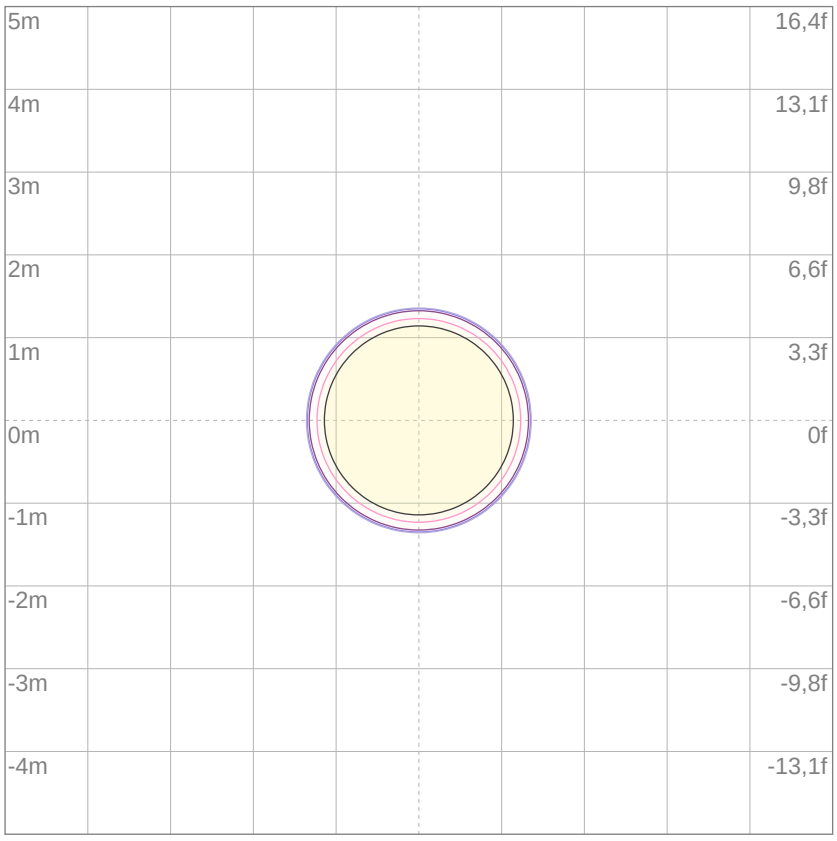
10%	17467 cd
20%	34934 cd
30%	52401 cd
40%	69868 cd
50%	87335 cd
60%	104802 cd
70%	122269 cd
80%	139736 cd

Conditions:

Number of c-planes: 2

Candela at center: 174670 cd

ISO LUX DIAGRAM



3%	52,4 lx
5%	87,3 lx
10%	175 lx
30%	524 lx
50%	873 lx

Conditions:

Number of c-planes: 2

Lux at center: 1747 lx

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

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Total lumen output:

4385 lm

Peak candela output:

24892 cd

Light quality:

CRI: 97,0

Color temperature:

5613 K

PRODUCT NAME:

ECLFWVW

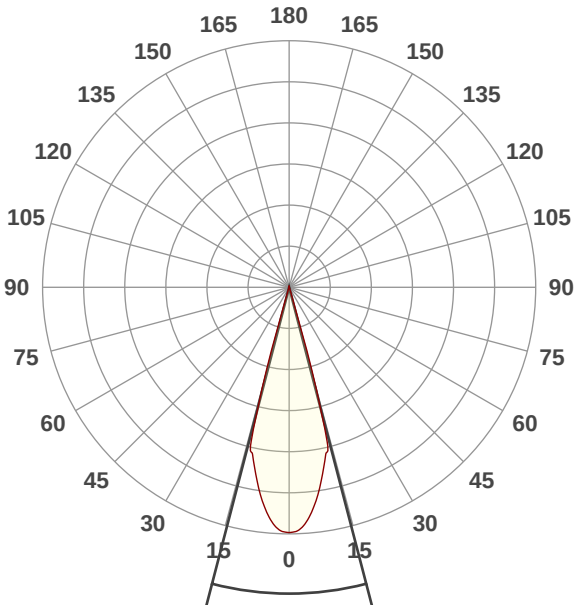
MEASURAMENT CONDITIONS:

Beam angle:
PRL15-30 Max Zoom

Target:
Cold White

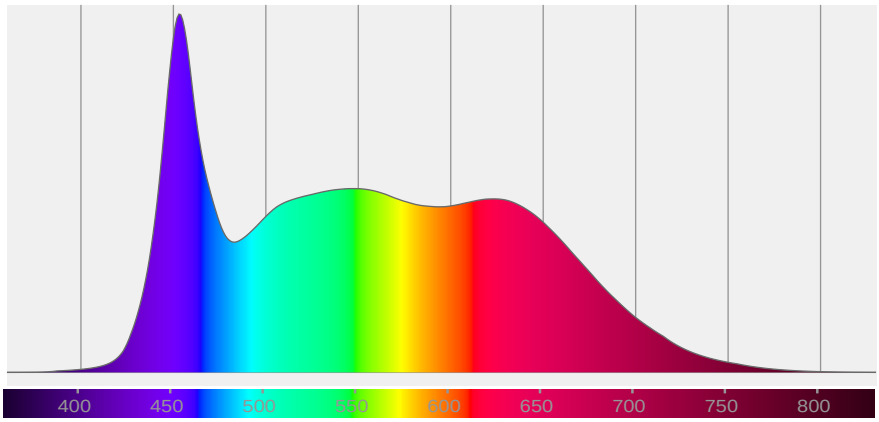
Operator:
Paolo Carvone

Date and time:
11/06/2021 14:36:25

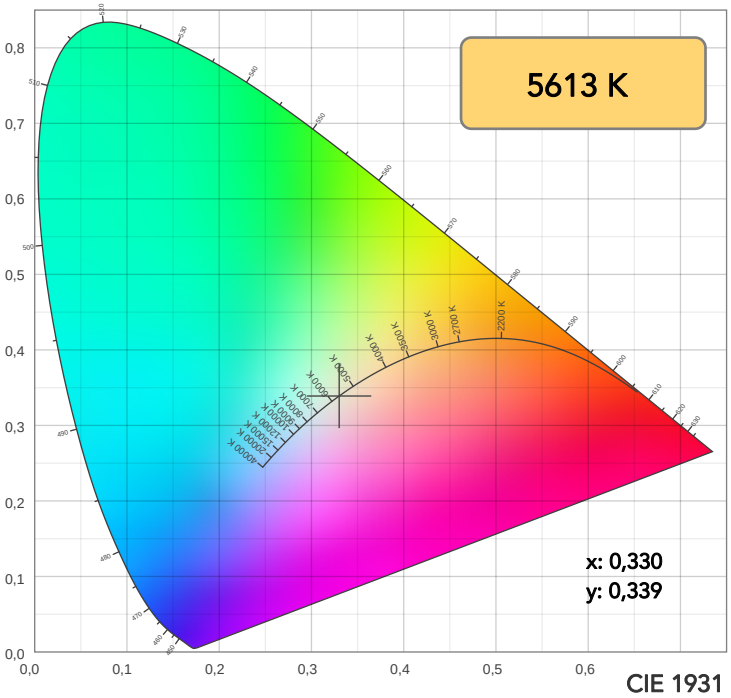


Beam angle 50%: 29,2°
Field angle 10%: 33°
Cut off angle 2.5%: 34,7°

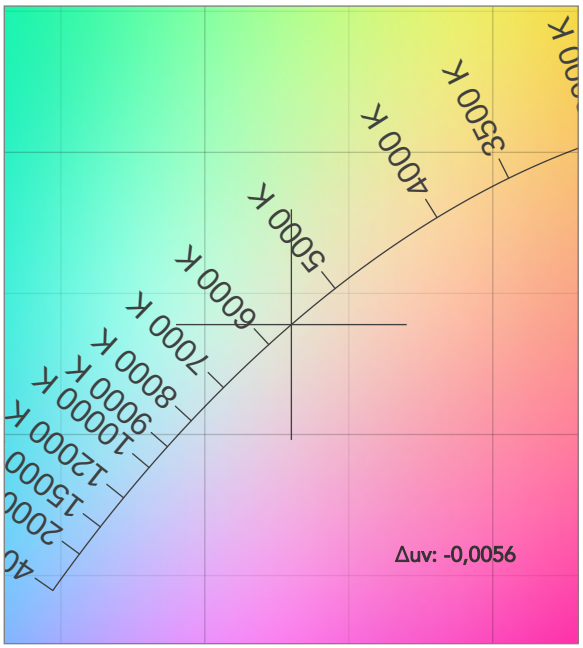
Spectra



COLOR DETAILS

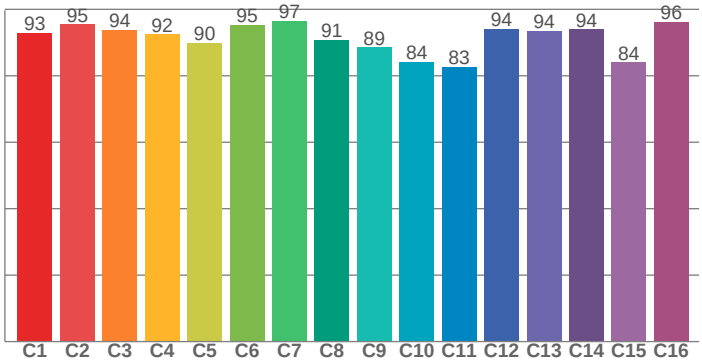


CIE 1931

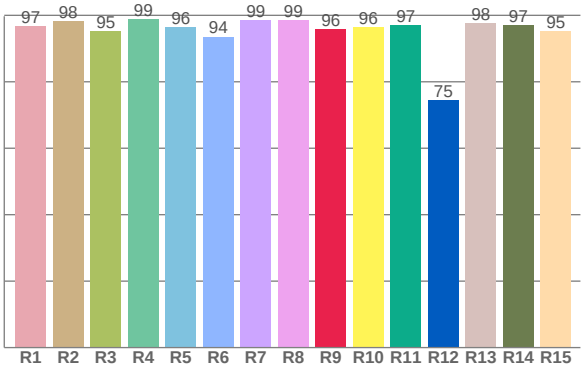


CIE 1931 ZOOM

TM30: 91,2



CRI: 97,0 (R1-R8)



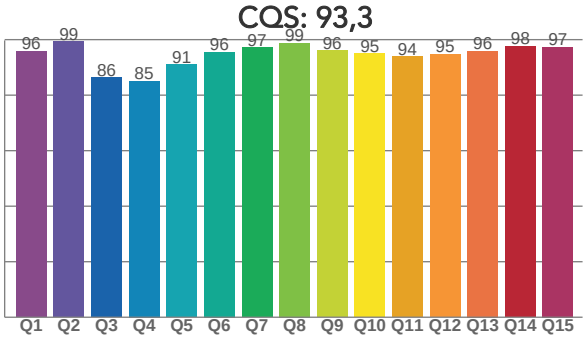
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
96,7	98,2	95,2	98,9	96,5	93,6	98,5	98,5	95,8	96,3	97,0	74,5	97,7	96,9	95,2

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
93,0	95,5	93,8	92,5	89,9	95,4	96,5	90,8	88,5	84,2	82,7	94,1	93,6	93,9	84,0	96,3

CQS: 93,3



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,8	99,4	86,3	85,0	91,1	95,5	97,1	98,8	96,0	95,0	93,9	94,7	95,9	97,6	97,3

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
5613 K	97,0	95,8	91,2	100,9	93,3	98	0,330	0,339	-0,0056

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TM30 DETAILS

PROLiGHTS

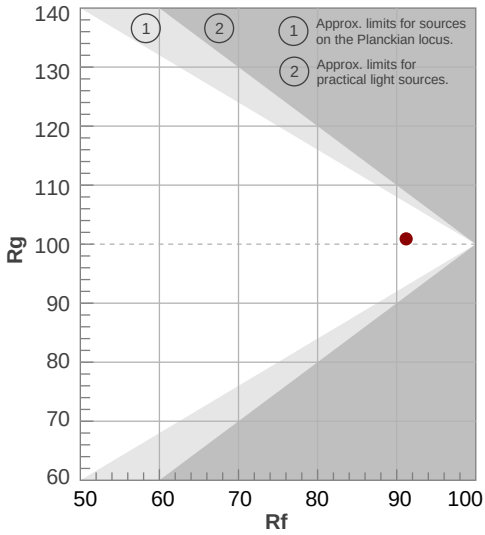
Rf 91,2

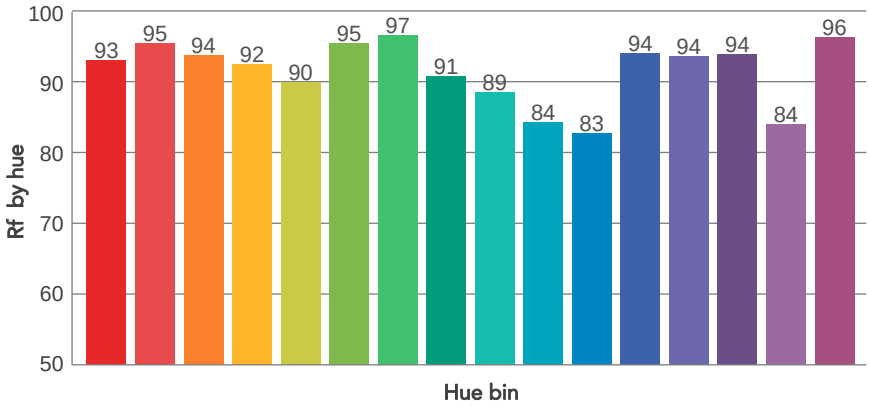
Fidelity index Rf

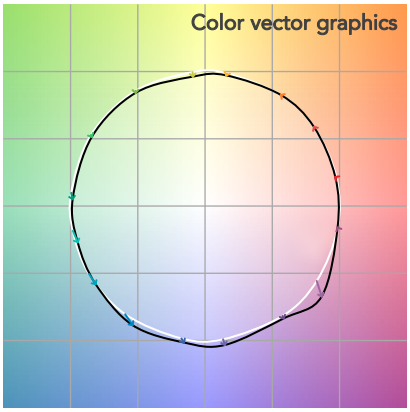
Rg 100,9

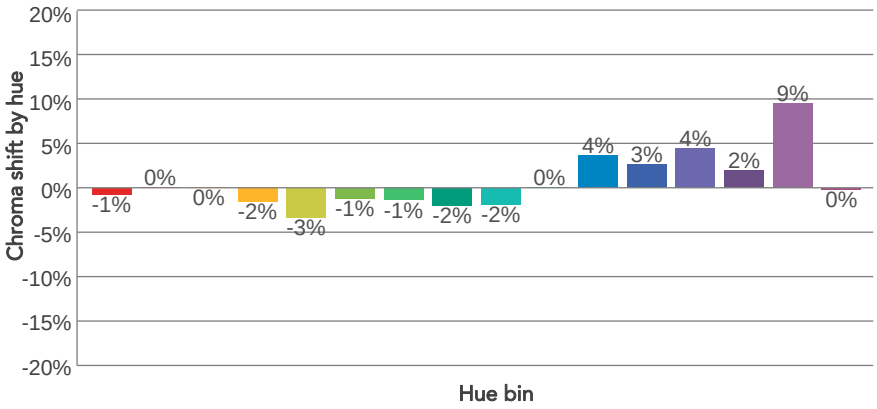
Gammut index

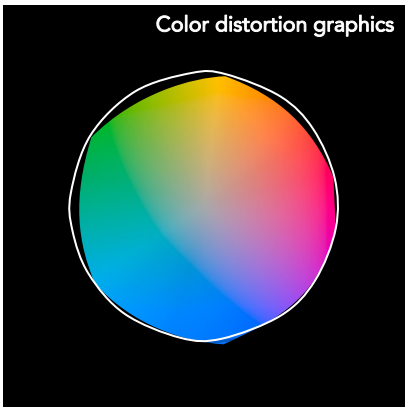
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	93	-1%	1%
2	95	0%	1%
3	94	0%	1%
4	92	-2%	0%
5	90	-3%	0%
6	95	-1%	1%
7	97	-1%	1%
8	91	-2%	4%
9	89	-2%	9%
10	84	0%	9%
11	83	4%	9%
12	94	3%	2%
13	94	4%	0%
14	94	2%	0%
15	84	9%	-8%
16	96	0%	0%

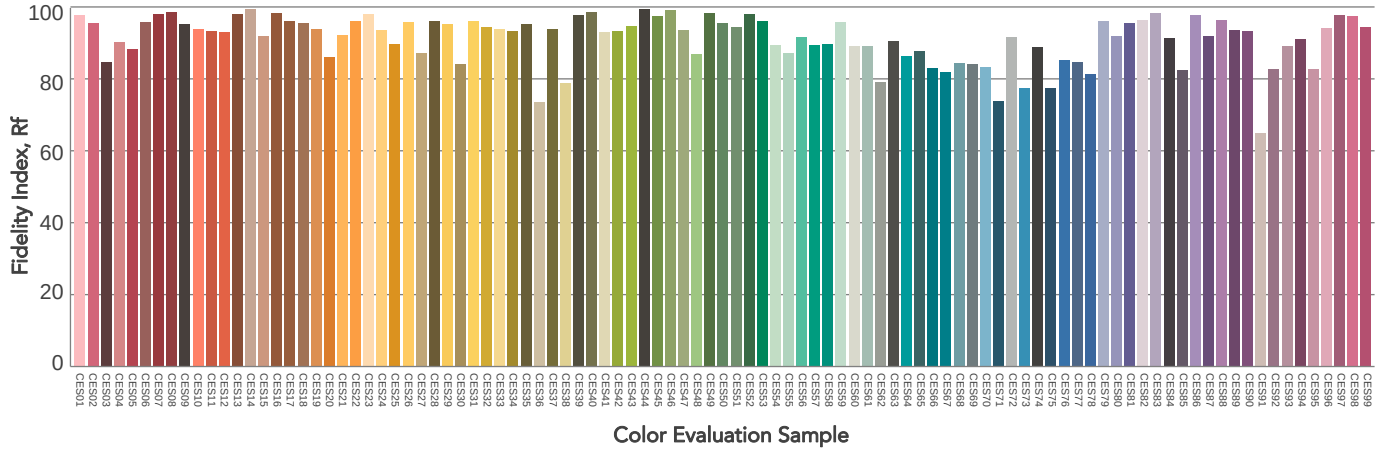












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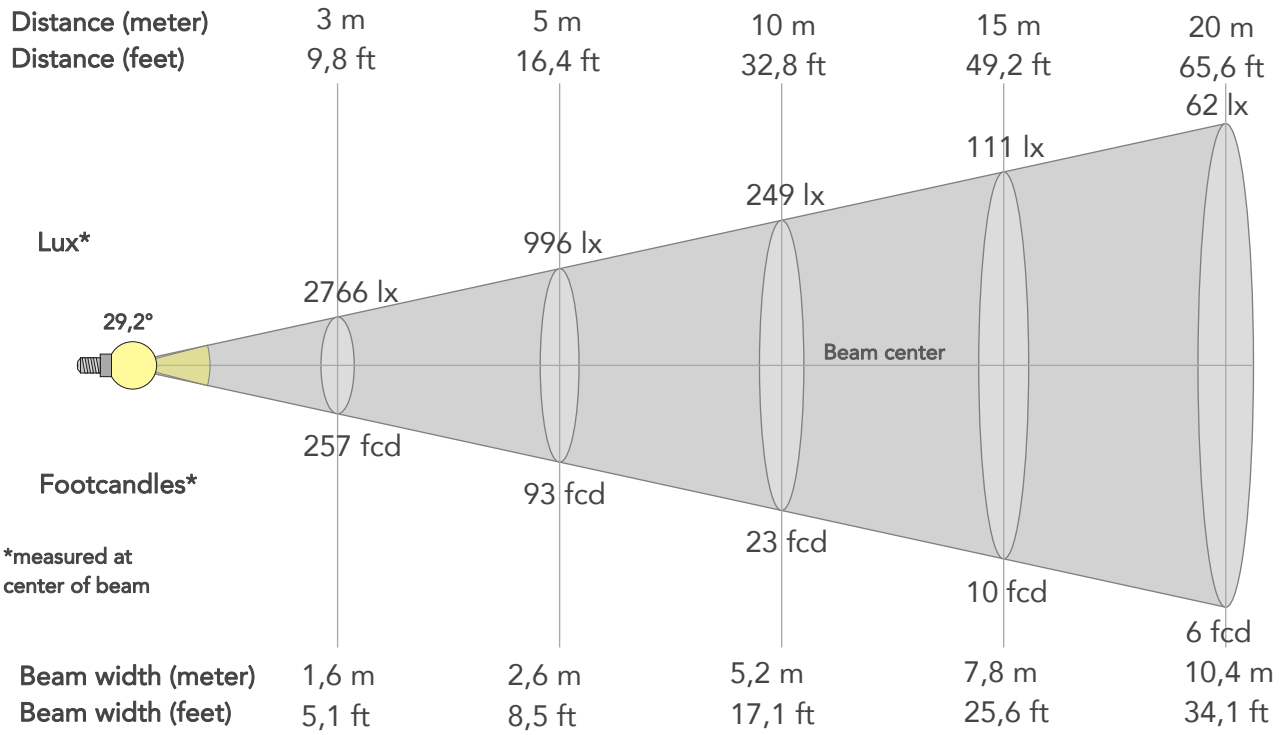
BEAM DETAILS

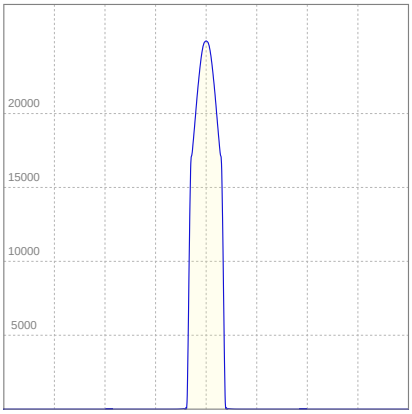
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
29,2°	33°	34,7°	100,0%	100,0%



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	24892lx	6223lx	2766lx	1556lx	996lx	443lx	249lx	111lx	62lx	40lx	28lx	16lx	10lx
Footcand.	2313fcd	578fcd	257fcd	145fcd	93fcd	41fcd	23fcd	10fcd	6fcd	4fcd	3fcd	1fcd	1fcd
Beam wid.	0,5m	1m	1,6m	2,1m	2,6m	3,9m	5,2m	7,8m	10,4m	13m	15,6m	20,8m	26m
Beam wid.	1,7ft	3,4ft	5,1ft	6,8ft	8,5ft	12,8ft	17,1ft	25,6ft	34,1ft	42,6ft	51,2ft	68,2ft	85,3ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,618A	130,6W	34lm/W

Power Fc
0,97

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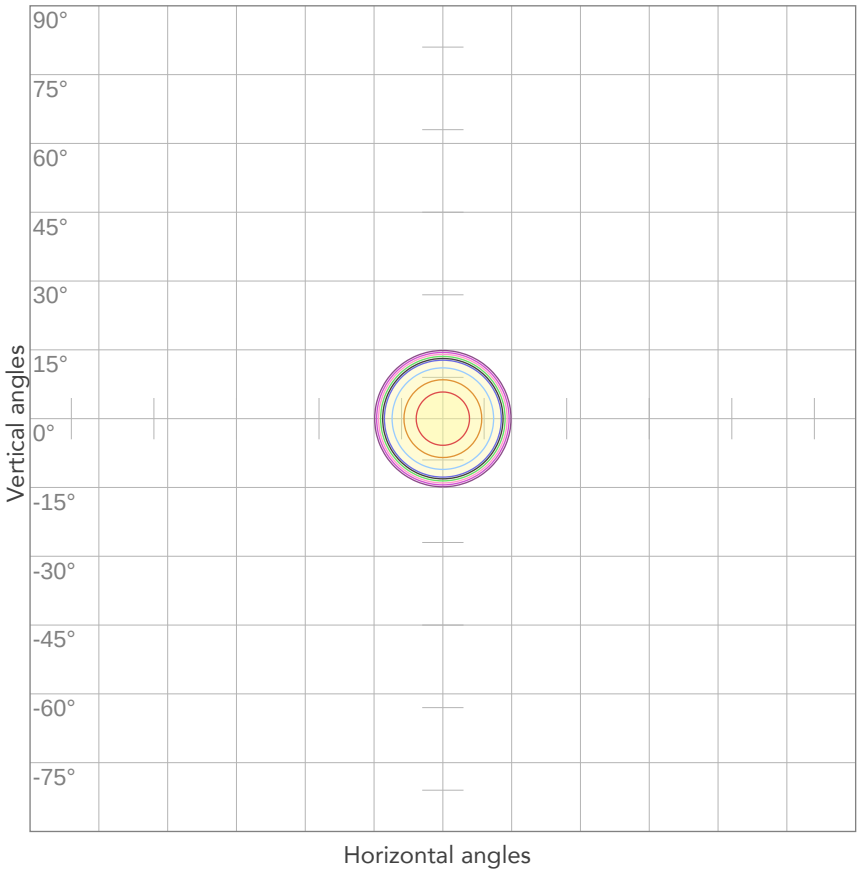
ISO DIAGRAMS

ISO CANDELA DIAGRAM



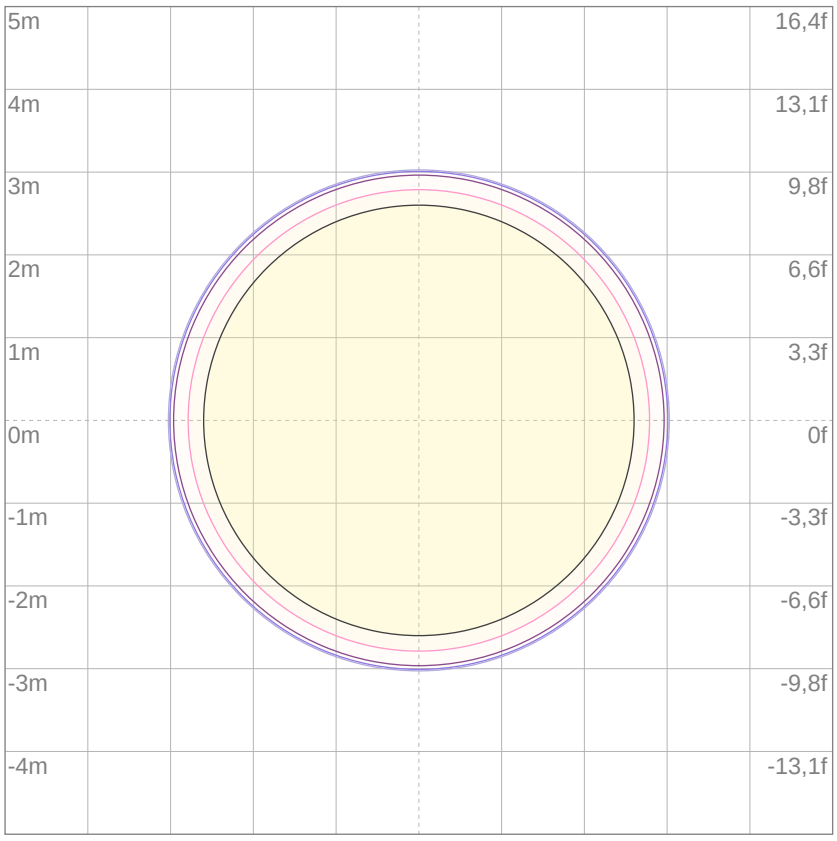
10%	2489 cd
20%	4978 cd
30%	7468 cd
40%	9957 cd
50%	12446 cd
60%	14935 cd
70%	17425 cd
80%	19914 cd

Conditions:

Number of c-planes: 2

Candela at center: 24892 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	7,47 lx
5%	12,4 lx
10%	24,9 lx
30%	74,7 lx
50%	124 lx

Conditions:

Number of c-planes: 2

Lux at center: 249 lx

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

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Total lumen output:

3604 lm

Peak candela output:

97814 cd

Light quality:

CRI: 97,0

Color temperature:

5613 K

PRODUCT NAME:

ECLFWVW

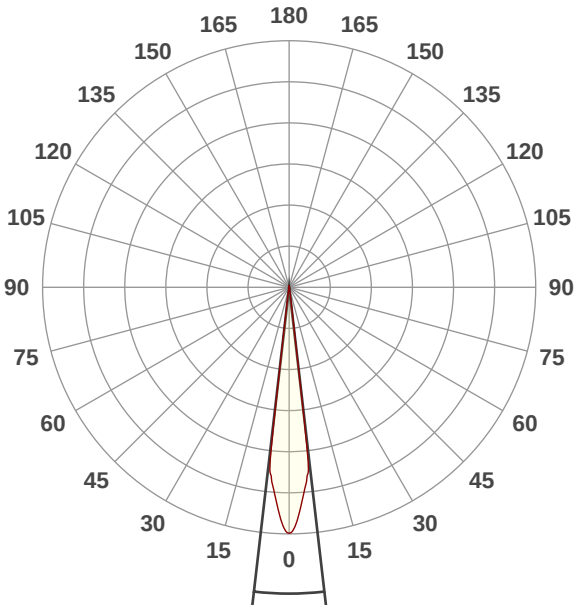
MEASURAMENT CONDITIONS:

Beam angle:
PRL15-30 Min Zoom

Target:
Cold White

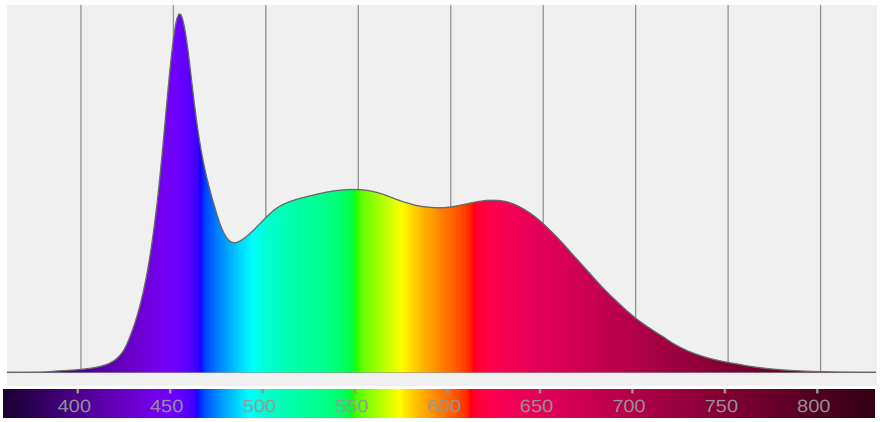
Operator:
Paolo Carvone

Date and time:
11/06/2021 14:30:30

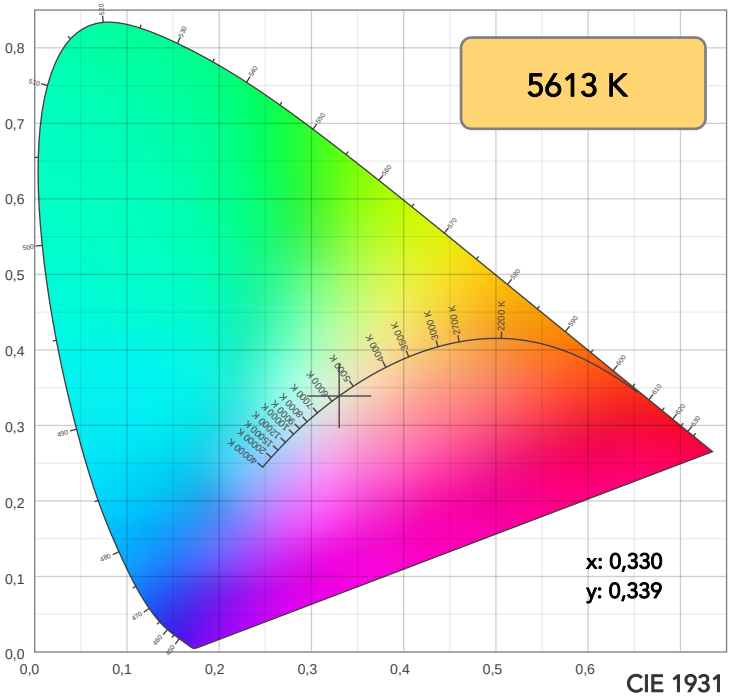


Beam angle 50%: 13,2°
Field angle 10%: 14,5°
Cut off angle 2.5%: 16°

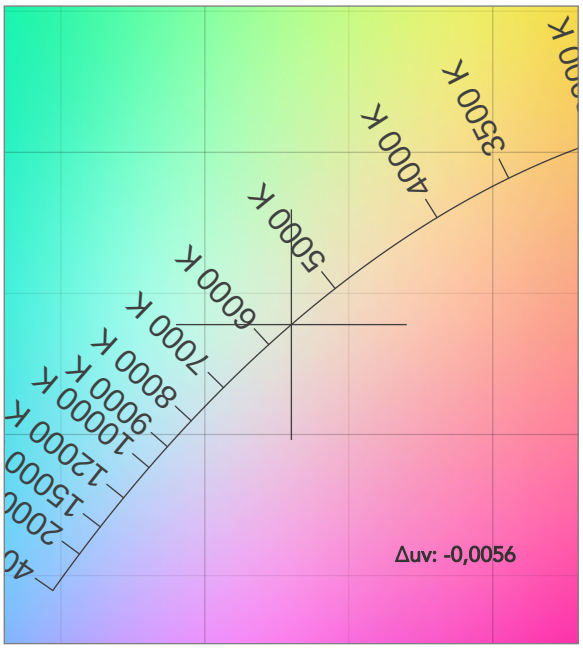
Spectra



COLOR DETAILS

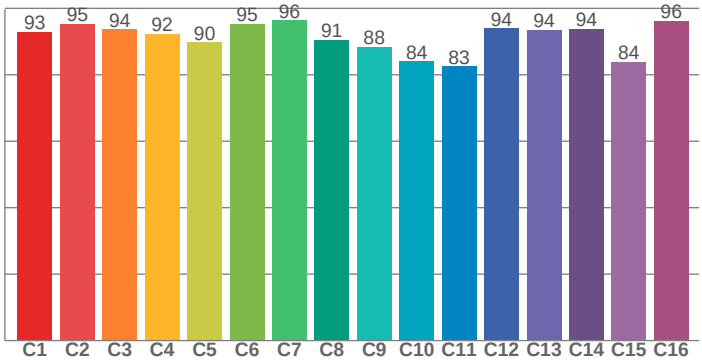


CIE 1931

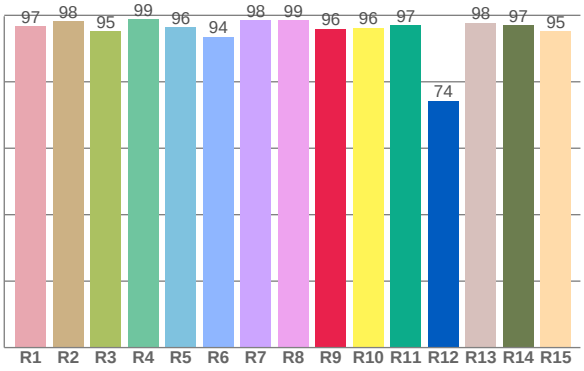


CIE 1931 ZOOM

TM30: 91,1



CRI: 97,0 (R1-R8)



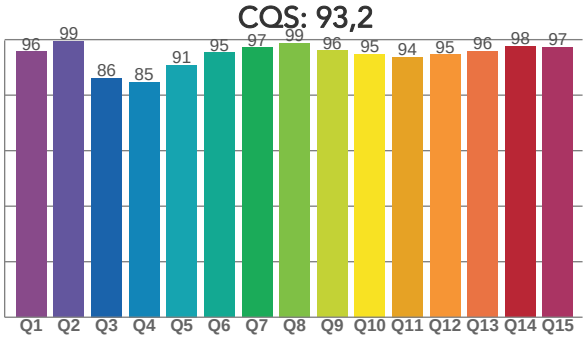
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
96,7	98,2	95,2	98,8	96,4	93,5	98,5	98,5	95,9	96,3	97,1	74,3	97,7	96,9	95,2

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
92,9	95,4	93,7	92,4	89,8	95,3	96,4	90,6	88,4	84,0	82,5	94,0	93,5	93,9	83,9	96,2

CQS: 93,2



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,7	99,4	86,2	84,8	90,8	95,3	97,1	98,8	96,0	94,9	93,8	94,6	95,8	97,6	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
5613 K	97,0	95,9	91,1	100,8	93,2	97	0,330	0,339	-0,0056

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TM30 DETAILS

PROLiGHTS

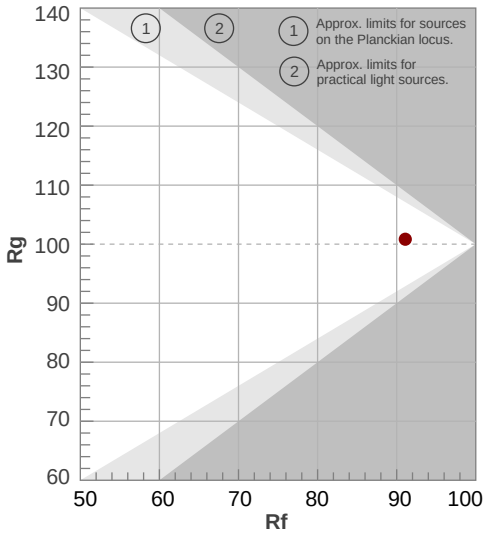
Rf 91,1

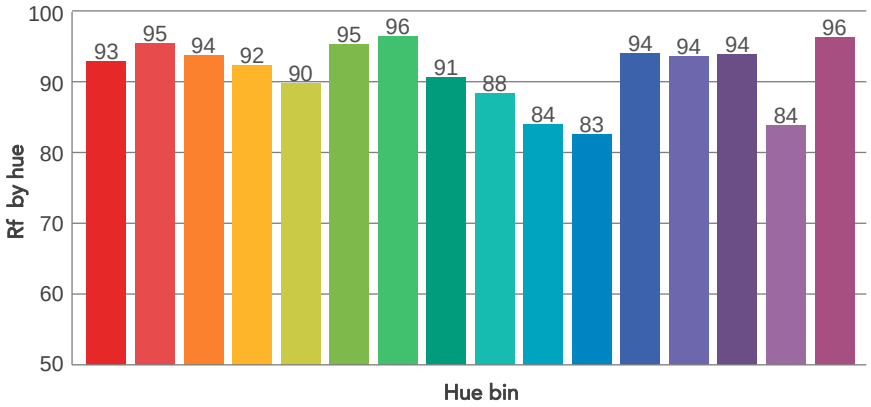
Fidelity index Rf

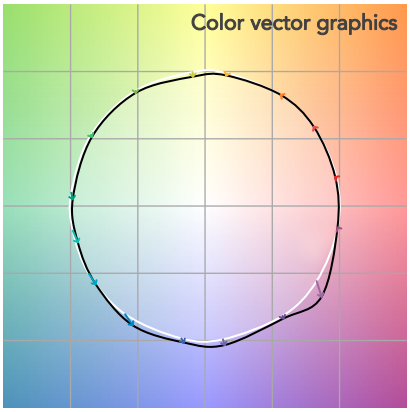
Rg 100,8

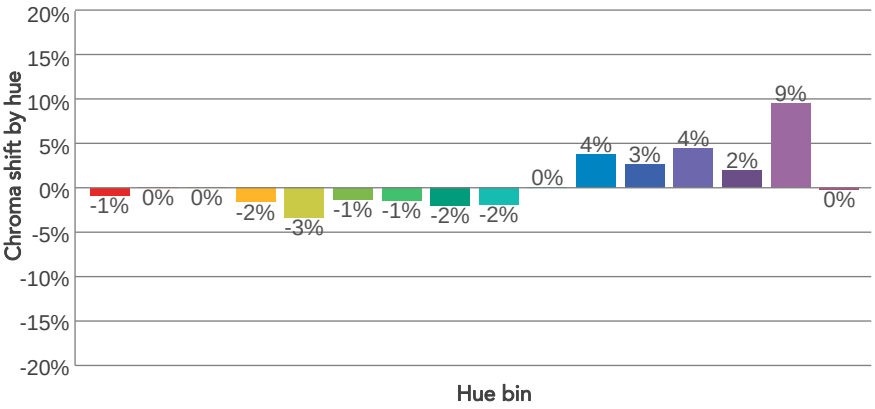
Gammut index

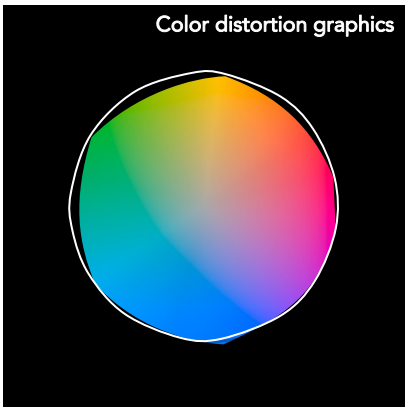
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	93	-1%	1%
2	95	0%	1%
3	94	0%	1%
4	92	-2%	0%
5	90	-3%	0%
6	95	-1%	1%
7	96	-1%	1%
8	91	-2%	4%
9	88	-2%	9%
10	84	0%	9%
11	83	4%	9%
12	94	3%	2%
13	94	4%	0%
14	94	2%	0%
15	84	9%	-8%
16	96	0%	0%

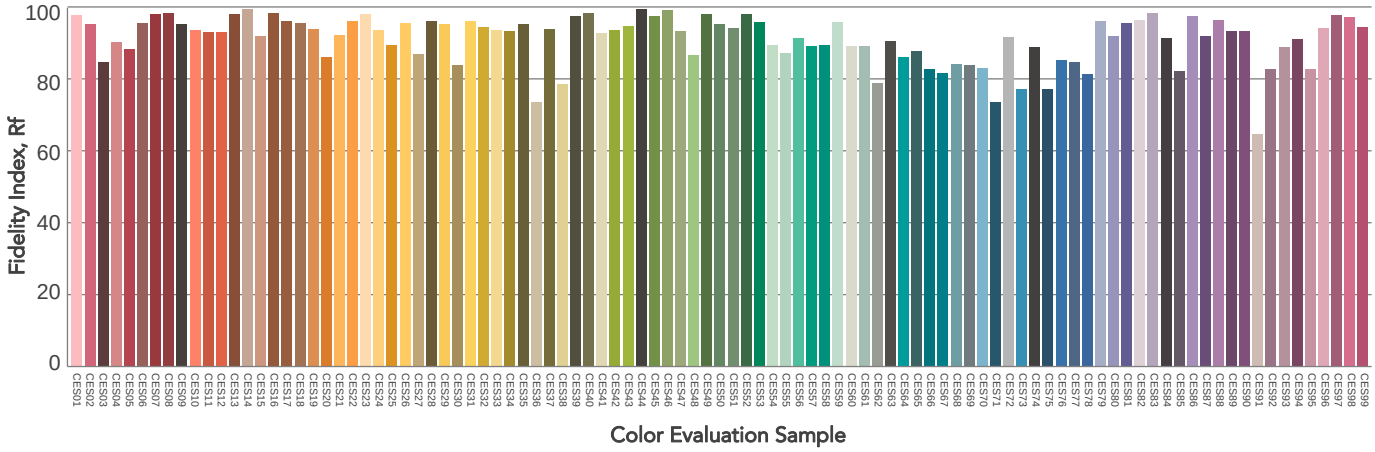












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04026 - Minturno (LT) ITALY
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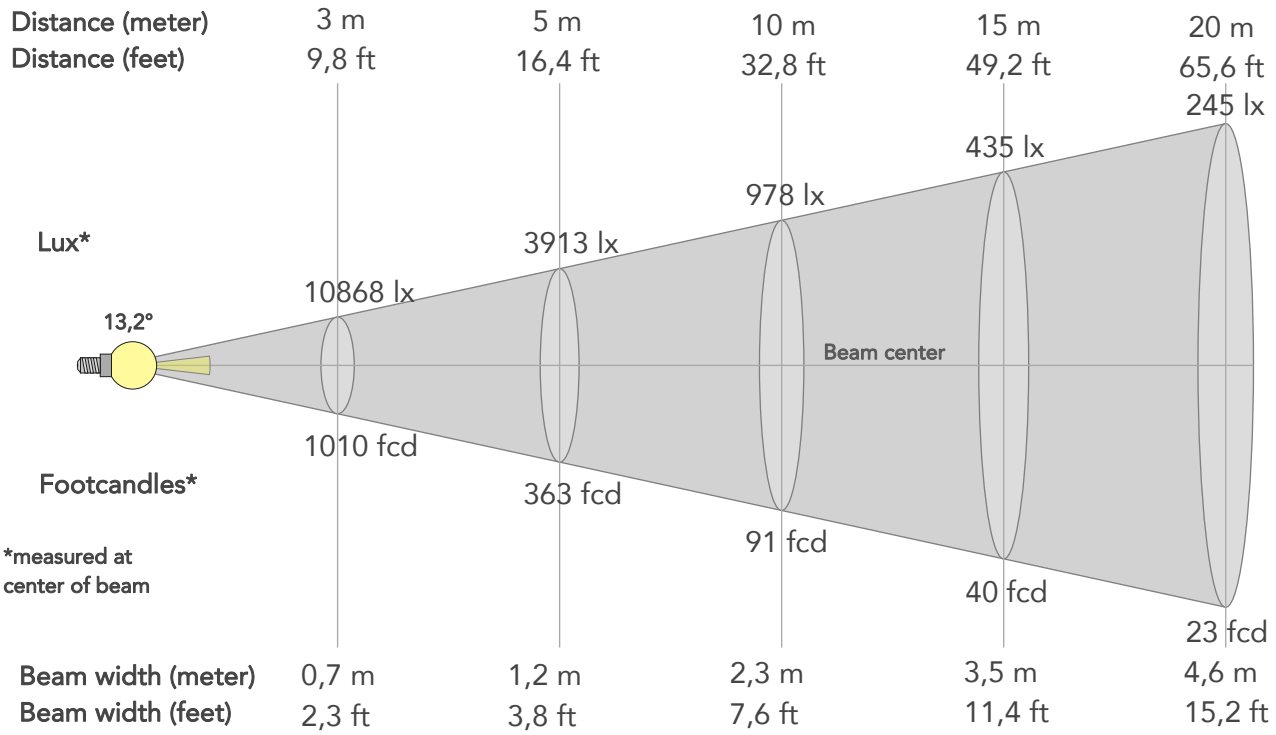
BEAM DETAILS

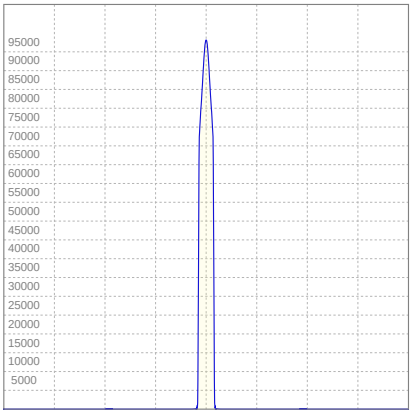
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
13,2°	14,5°	16°	100,0%	100,0%



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	97814lx	24454lx	10868lx	6113lx	3913lx	1739lx	978lx	435lx	245lx	157lx	109lx	61lx	39lx
Footcand.	9087fcd	2272fcd	1010fcd	568fcd	363fcd	162fcd	91fcd	40fcd	23fcd	15fcd	10fcd	6fcd	4fcd
Beam wid.	0,2m	0,5m	0,7m	0,9m	1,2m	1,7m	2,3m	3,5m	4,6m	5,8m	6,9m	9,3m	11,6m
Beam wid.	0,8ft	1,5ft	2,3ft	3ft	3,8ft	5,7ft	7,6ft	11,4ft	15,2ft	19ft	22,8ft	30,4ft	38ft

LINEAR DISTRIBUTION DIAGRAM



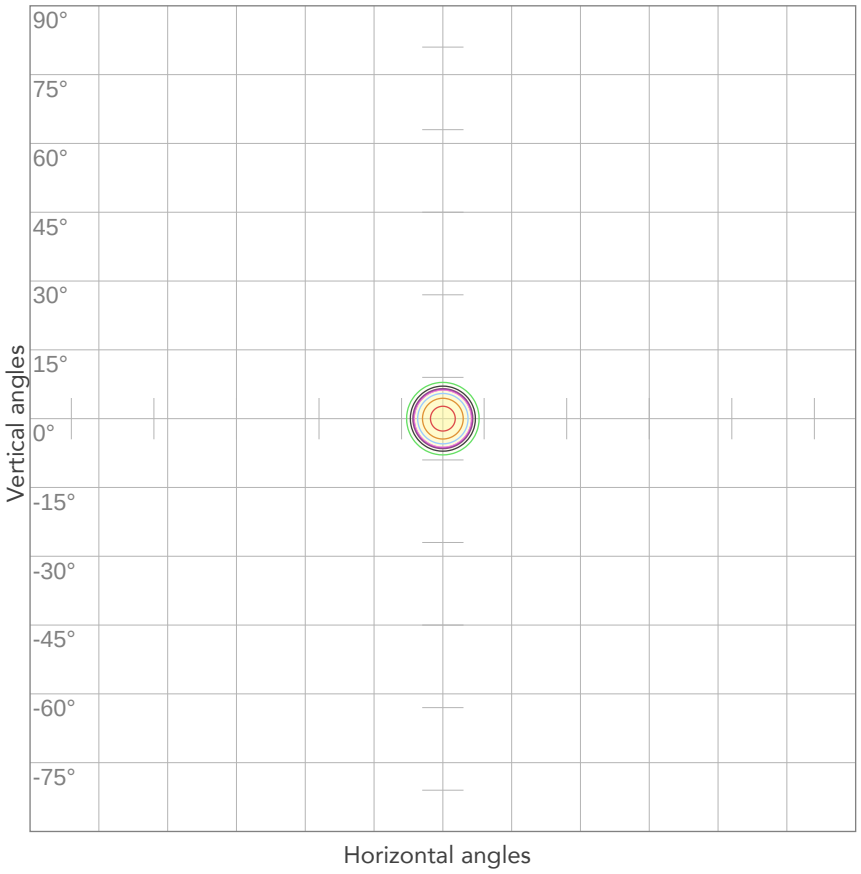
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
229V	0,615A	130,5W	28lm/W

Power Fc
0,97

ISO DIAGRAMS

ISO CANDELA DIAGRAM



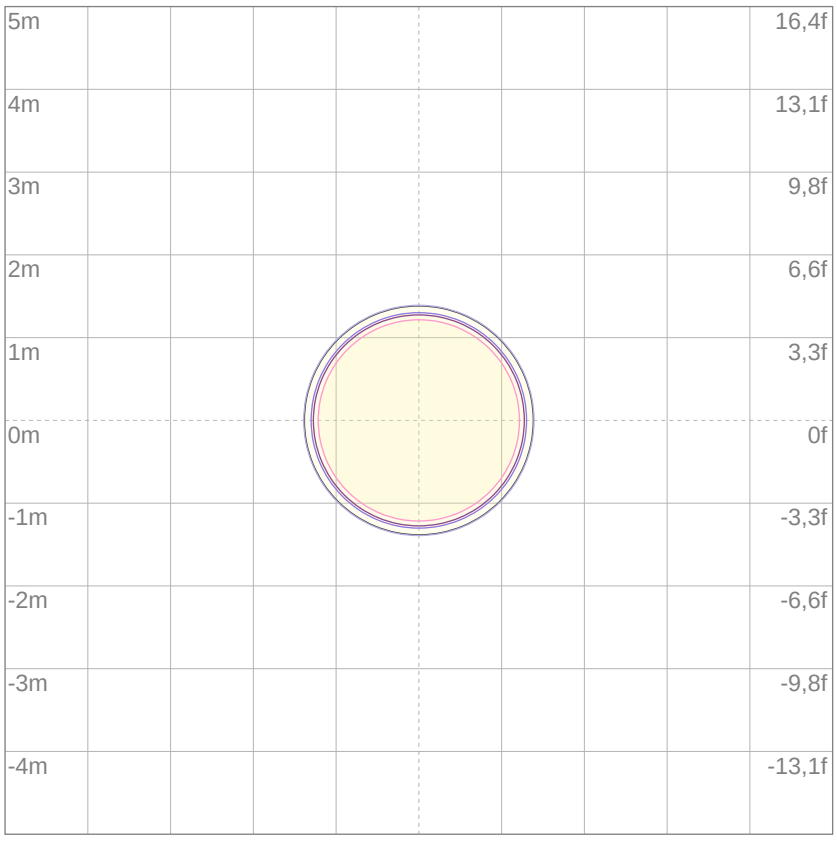
10%	9781 cd
20%	19563 cd
30%	29344 cd
40%	39126 cd
50%	48907 cd
60%	58689 cd
70%	68470 cd
80%	78252 cd

Conditions:

Number of c-planes: 2

Candela at center: 97814 cd

ISO LUX DIAGRAM



3%	29,3 lx
5%	48,9 lx
10%	97,8 lx
30%	293 lx
50%	489 lx

Conditions:

Number of c-planes: 2

Lux at center: 978 lx

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

Total lumen output:

3639 lm

Peak candela output:

20761 cd

Light quality:

CRI: 96,9

Color temperature:

2724 K

PRODUCT NAME:

ECLFWVW

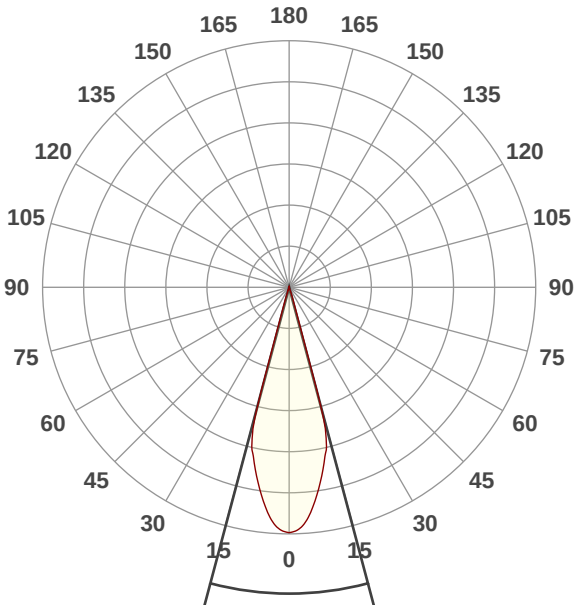
MEASURAMENT CONDITIONS:

Beam angle:
PRL15-30 Max Zoom

Target:
Warm White

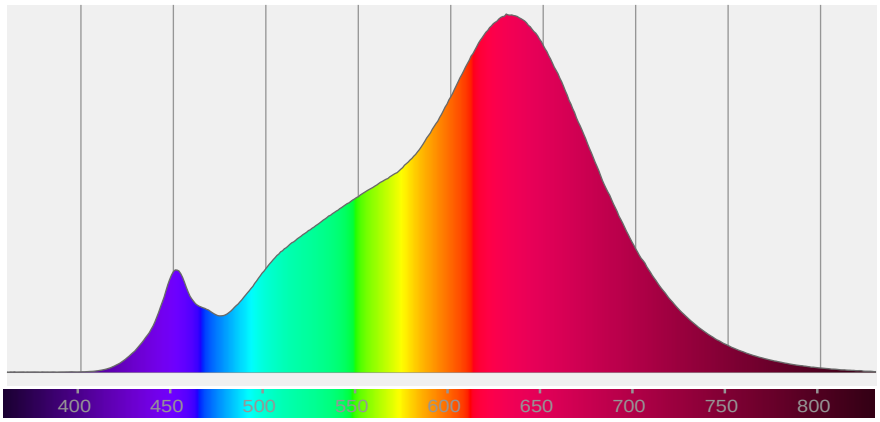
Operator:
Paolo Carvone

Date and time:
11/06/2021 14:34:35



Beam angle 50%: 29,8°
Field angle 10%: 32,5°
Cut off angle 2.5%: 34,7°

Spectra



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Via A. Olivetti snc
04026 - Minturno (LT) ITALY
Tel: +39 0771 72190

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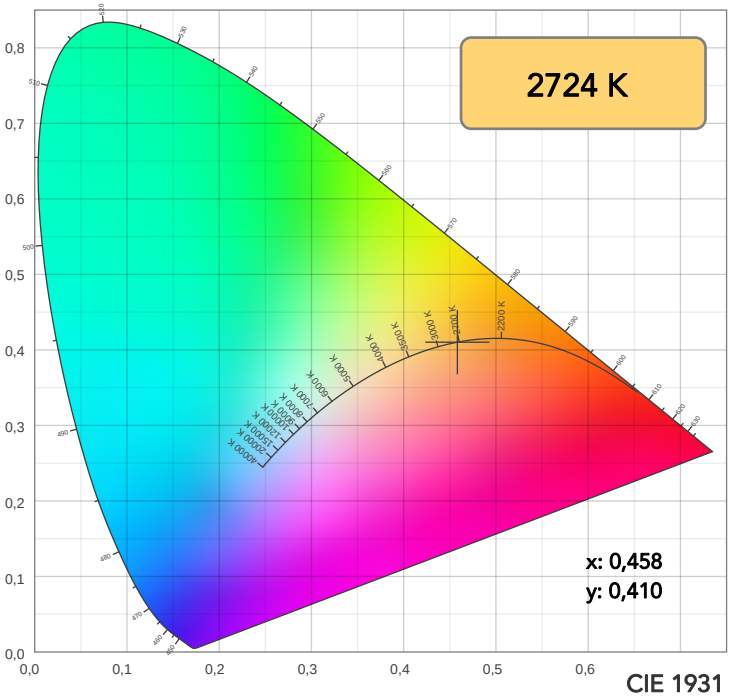
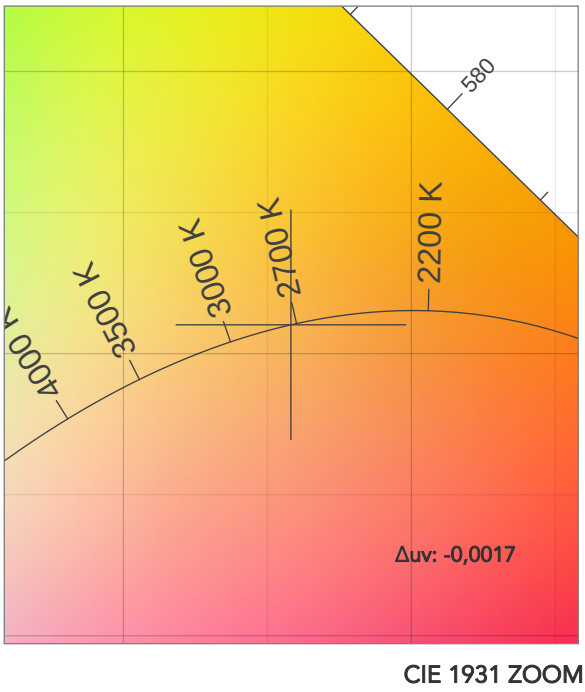
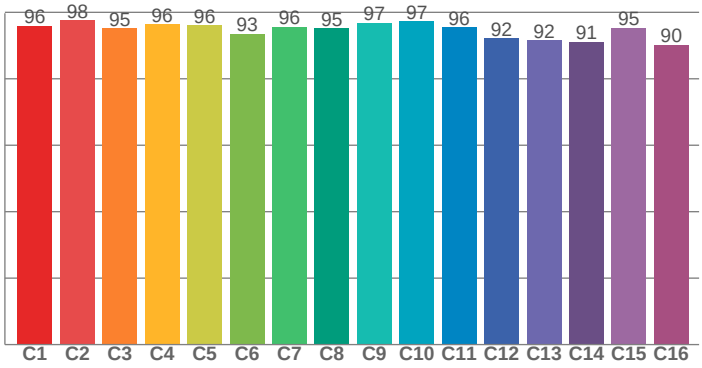
info@prolights.it

COLOR DETAILS

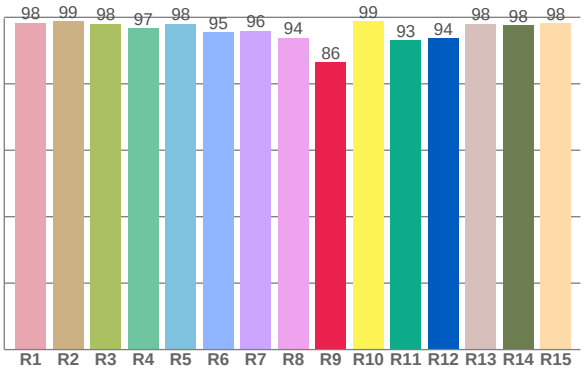




TM30: 95,0



CRI: 96,9 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98,4	98,7	98,0	96,8	98,0	95,4	96,0	93,8	86,5	98,9	93,1	93,6	98,0	97,6	98,2

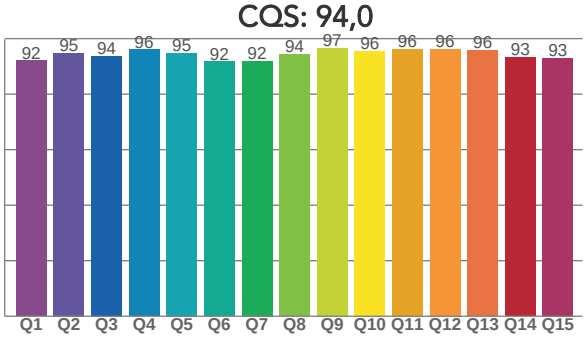
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,9	97,5	95,2	96,4	96,1	93,4	95,6	95,1	96,8	97,3	95,5	92,2	91,6	91,2	95,3	90,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,1	94,8	93,7	96,1	94,9	91,8	91,9	94,3	96,6	95,6	96,3	96,3	95,8	93,3	93,0

CQS: 94,0



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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2724 K	96,9	86,5	95,0	102,5	94,0	97	0,458	0,410	-0,0017

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

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TM30 DETAILS

PROLiGHTS

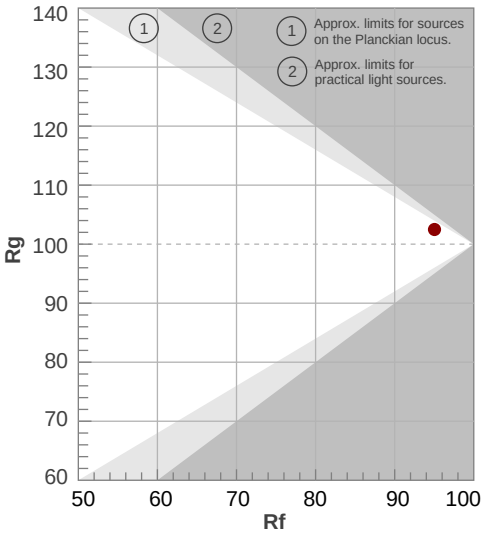
Rf 95,0

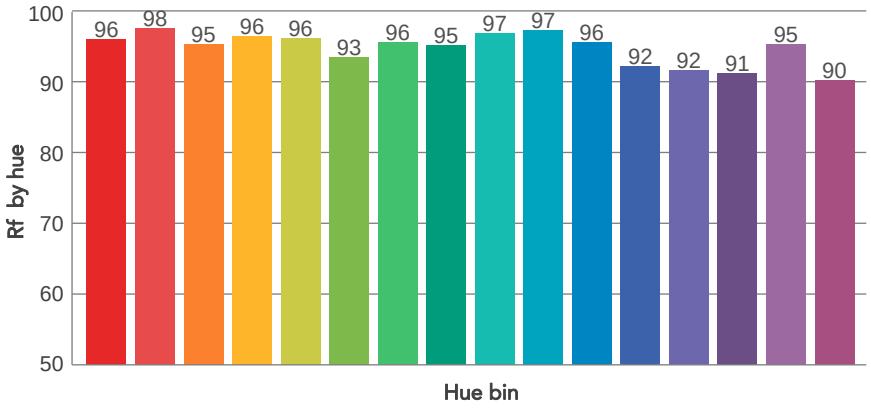
Fidelity index Rf

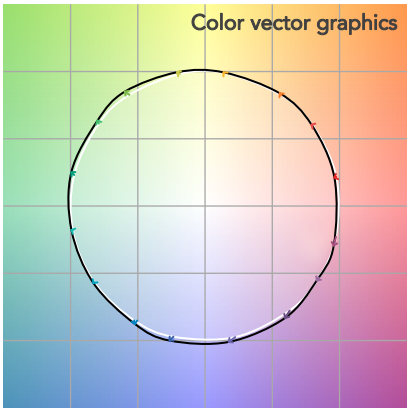
Rg 102,5

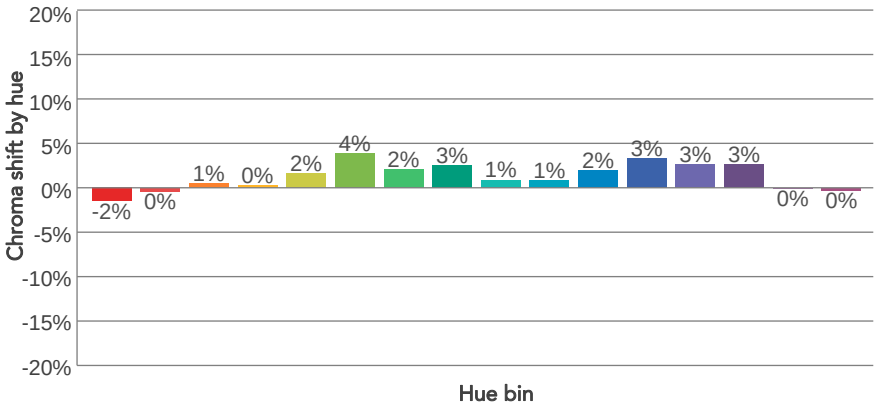
Gammut index

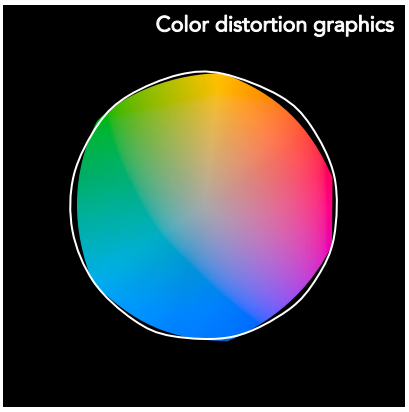
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	96	-2%	0%
2	98	0%	1%
3	95	1%	2%
4	96	0%	0%
5	96	2%	2%
6	93	4%	2%
7	96	2%	-1%
8	95	3%	-1%
9	97	1%	-1%
10	97	1%	0%
11	96	2%	2%
12	92	3%	-2%
13	92	3%	-5%
14	91	3%	-6%
15	95	0%	-2%
16	90	0%	-7%

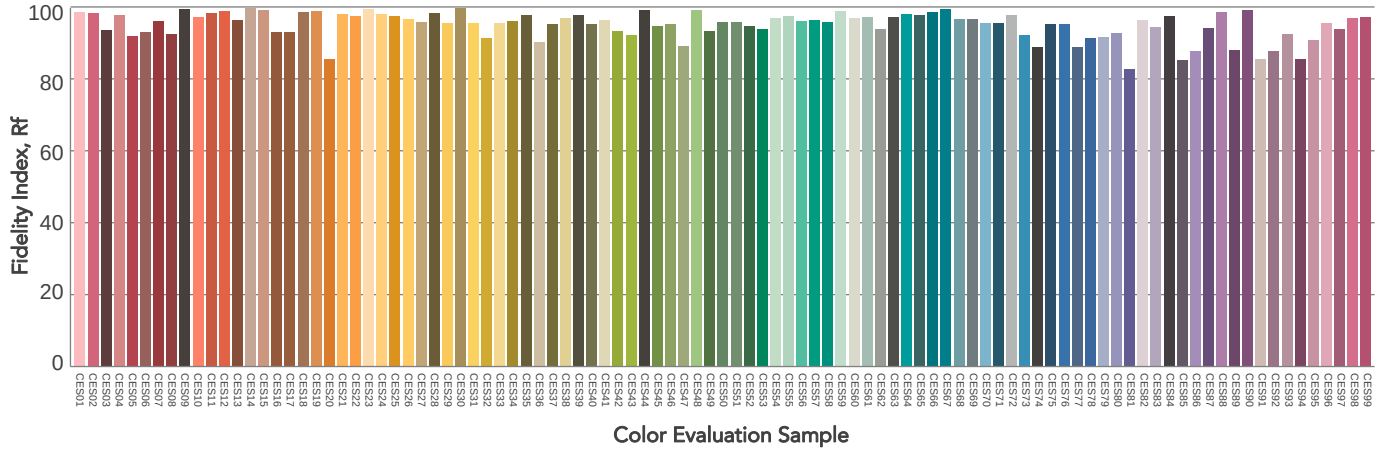












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04026 - Minturno (LT) ITALY
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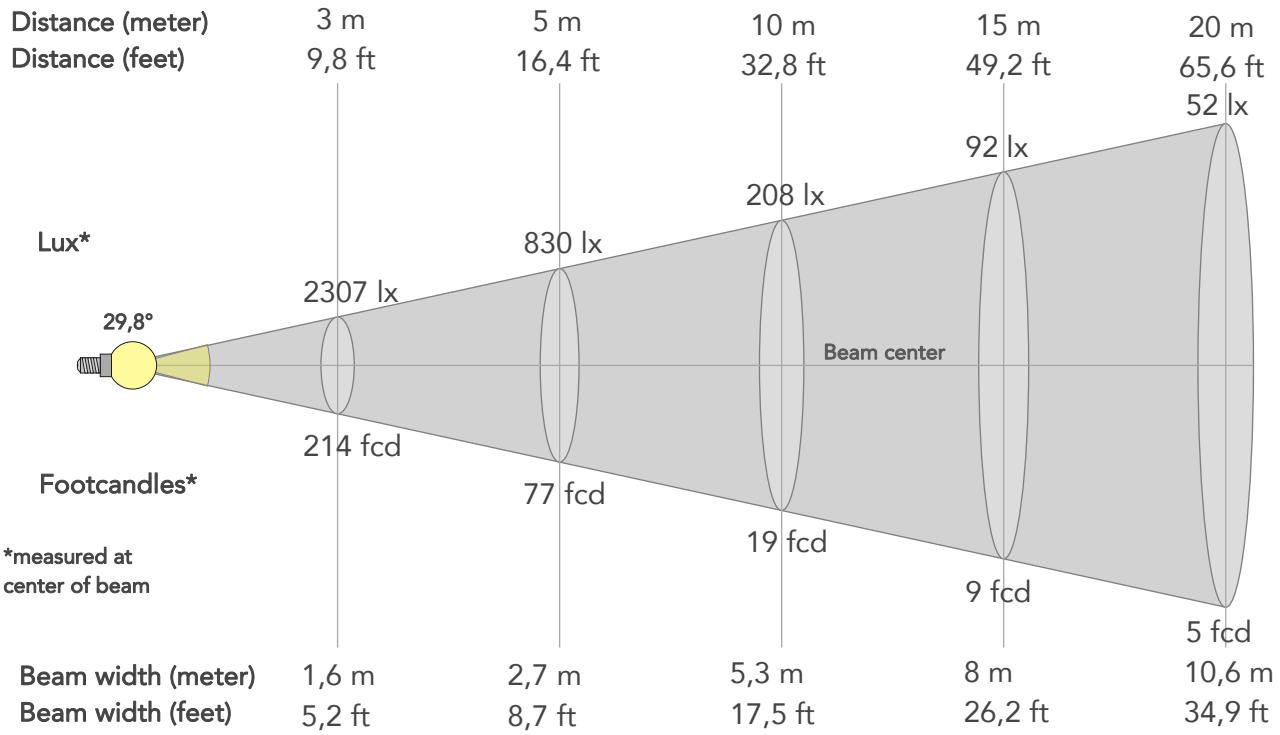
BEAM DETAILS

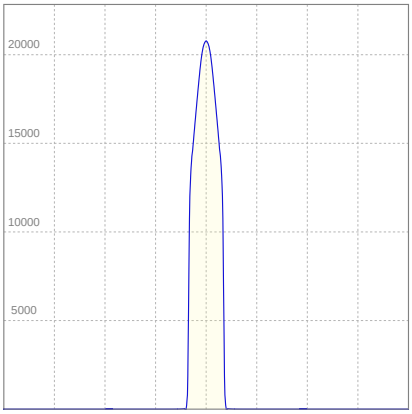
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
29,8°	32,5°	34,7°	100,0%	100,0%



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	20761lx	5190lx	2307lx	1298lx	830lx	369lx	208lx	92lx	52lx	33lx	23lx	13lx	8lx
Footcand.	1929fcd	482fcd	214fcd	121fcd	77fcd	34fcd	19fcd	9fcd	5fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,5m	1,1m	1,6m	2,1m	2,7m	4m	5,3m	8m	10,6m	13,3m	16m	21,3m	26,6m
Beam wid.	1,8ft	3,5ft	5,2ft	7ft	8,7ft	13,1ft	17,5ft	26,2ft	34,9ft	43,6ft	52,4ft	69,8ft	87,3ft

LINEAR DISTRIBUTION DIAGRAM



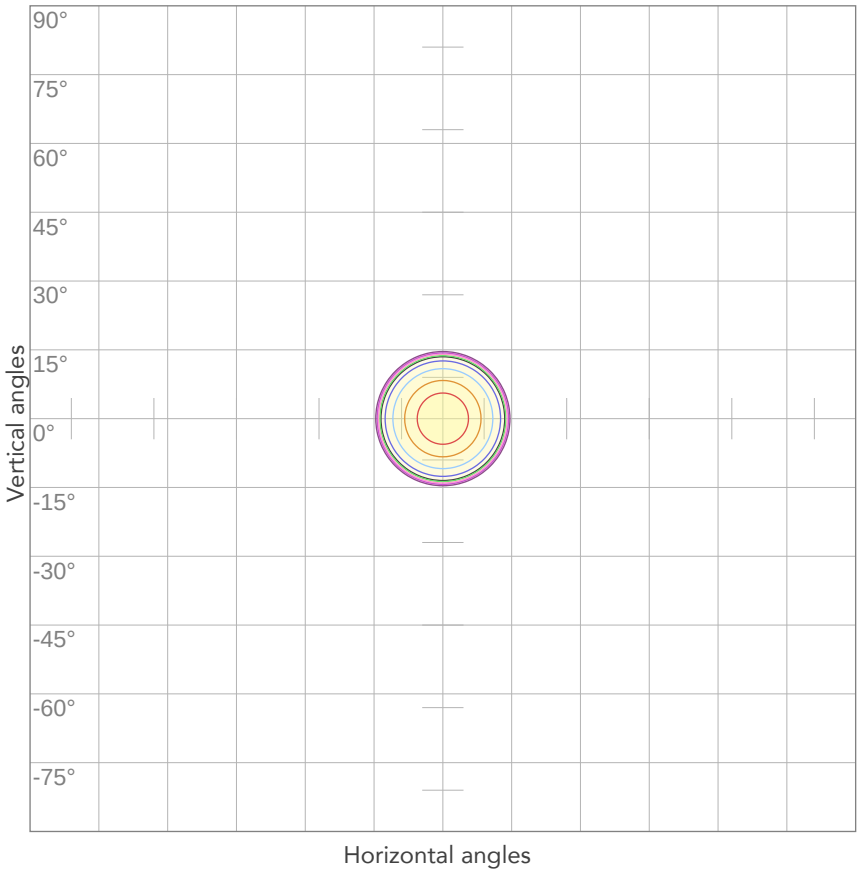
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
228V	0,626A	132,4W	27lm/W

Power Fc
0,97

ISO DIAGRAMS

ISO CANDELA DIAGRAM



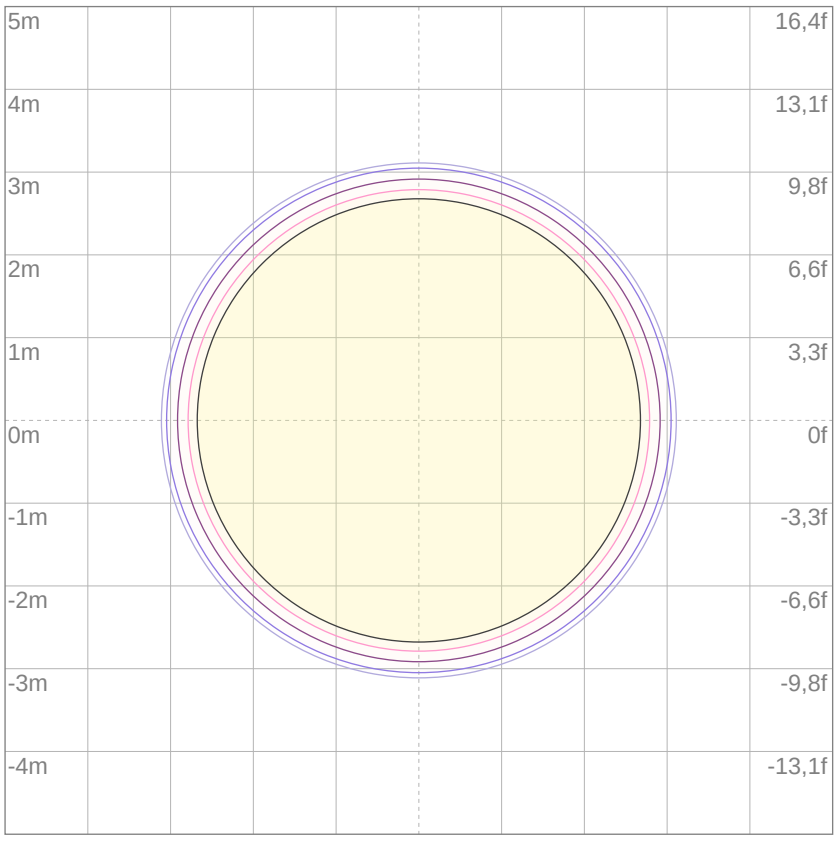
10%	2076 cd
20%	4152 cd
30%	6228 cd
40%	8304 cd
50%	10380 cd
60%	12456 cd
70%	14532 cd
80%	16609 cd

Conditions:

Number of c-planes: 2

Candela at center: 20761 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	6,23 lx
5%	10,4 lx
10%	20,8 lx
30%	62,3 lx
50%	104 lx

Conditions:

Number of c-planes: 2

Lux at center: 208 lx

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

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Total lumen output:

3000 lm

Peak candela output:

80619 cd

Light quality:

CRI: 97,0

Color temperature:

2727 K

PRODUCT NAME:

ECLFWVW

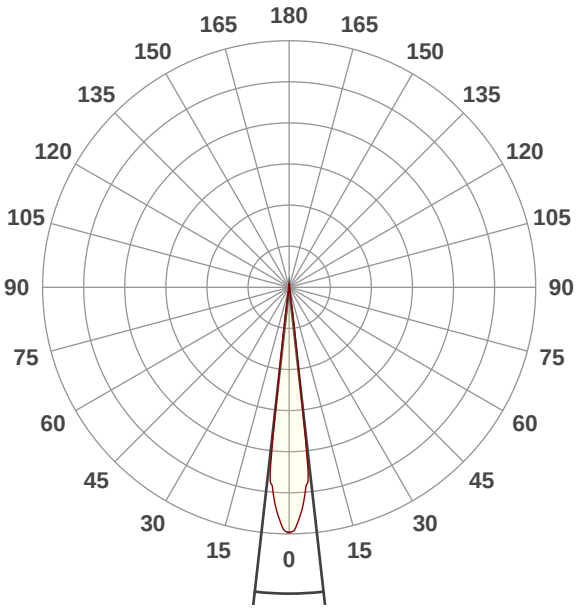
MEASURAMENT CONDITIONS:

Beam angle:
PRL15-30 Min Zoom

Target:
Warm White

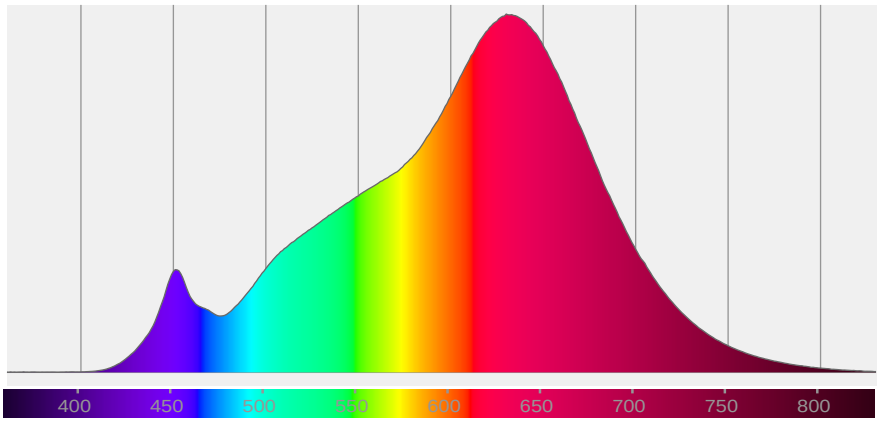
Operator:
Paolo Carvone

Date and time:
11/06/2021 14:29:09

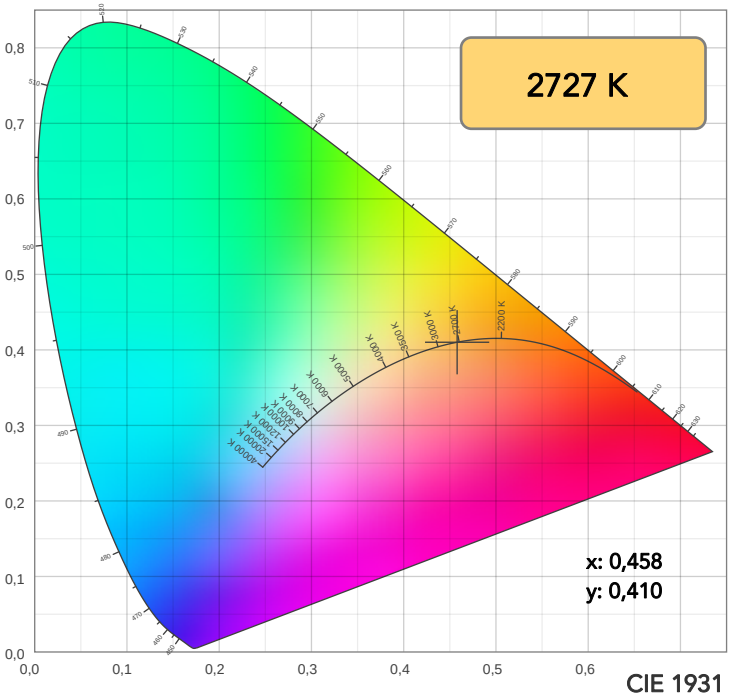


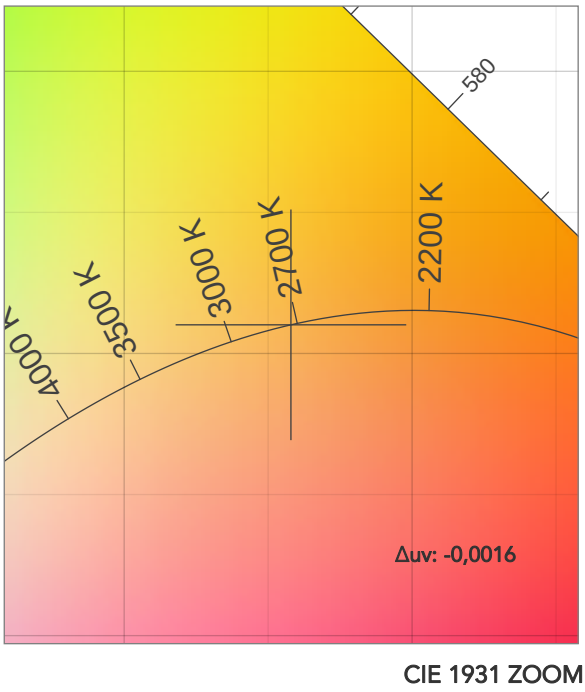
Beam angle 50%: 12,9°
Field angle 10%: 15,4°
Cut off angle 2.5%: 16,3°

Spectra

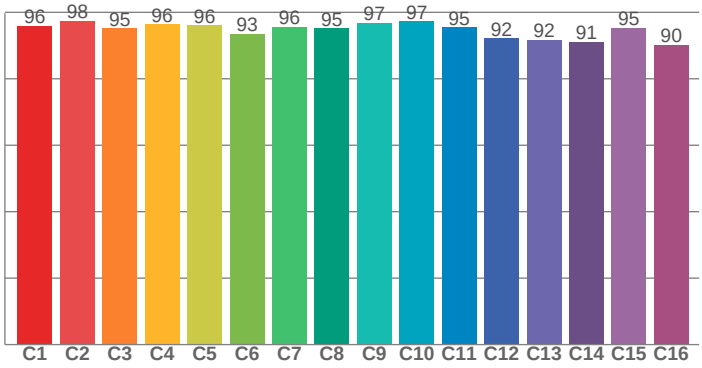


COLOR DETAILS

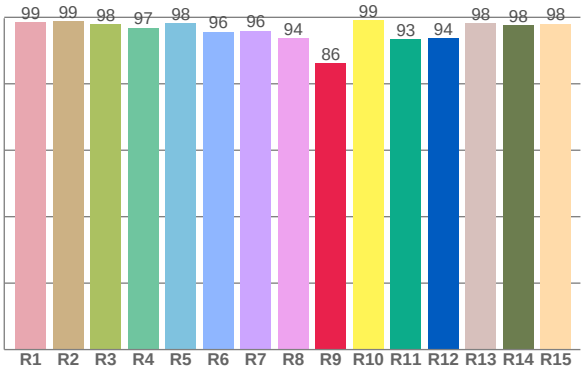




TM30: 95,0



CRI: 97,0 (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
98,6	98,9	97,9	96,9	98,2	95,6	96,0	93,7	86,1	99,1	93,3	93,8	98,2	97,6	98,1

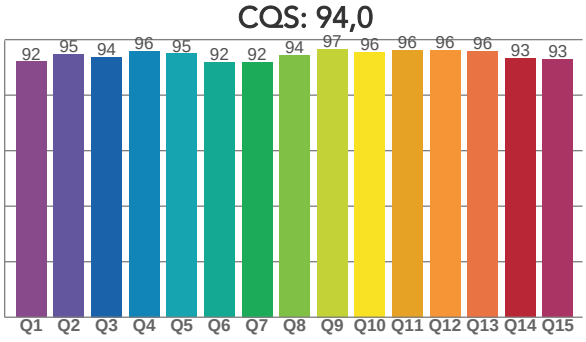
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,9	97,5	95,2	96,4	96,1	93,5	95,6	95,2	96,9	97,3	95,4	92,2	91,6	91,2	95,3	90,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,1	94,8	93,7	96,0	94,9	91,8	92,0	94,4	96,7	95,6	96,3	96,3	95,8	93,3	92,9

CQS: 94,0



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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2727 K	97,0	86,1	95,0	102,4	94,0	97	0,458	0,410	-0,0016

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Via A. Olivetti snc
04026 - Minturno (LT) ITALY
Tel: +39 0771 72190

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TM30 DETAILS

PROLiGHTS

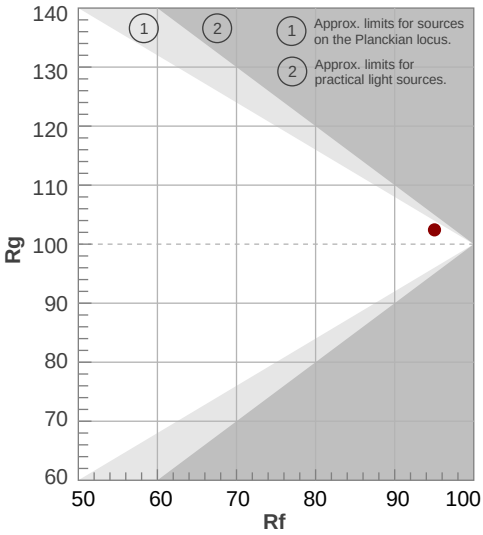
Rf 95,0

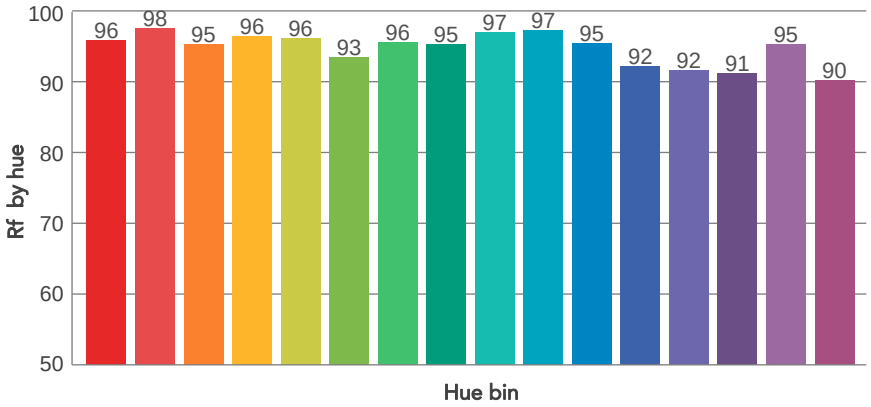
Fidelity index Rf

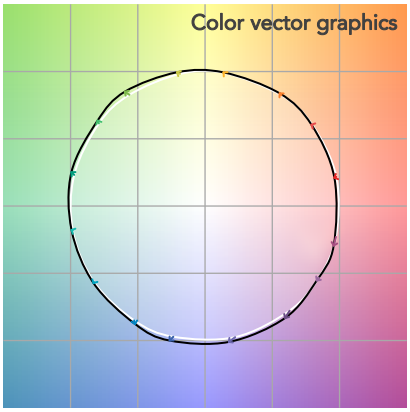
Rg 102,4

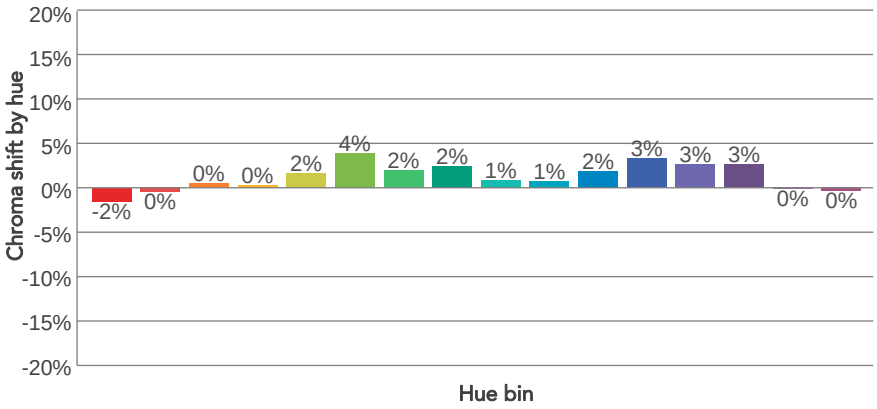
Gammut index

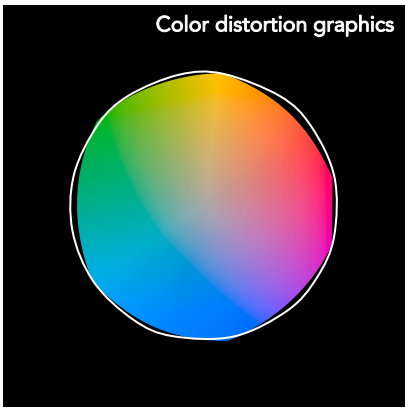
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	96	-2%	0%
2	98	0%	1%
3	95	0%	2%
4	96	0%	0%
5	96	2%	2%
6	93	4%	2%
7	96	2%	-1%
8	95	2%	-1%
9	97	1%	-1%
10	97	1%	0%
11	95	2%	2%
12	92	3%	-2%
13	92	3%	-5%
14	91	3%	-6%
15	95	0%	-2%
16	90	0%	-7%

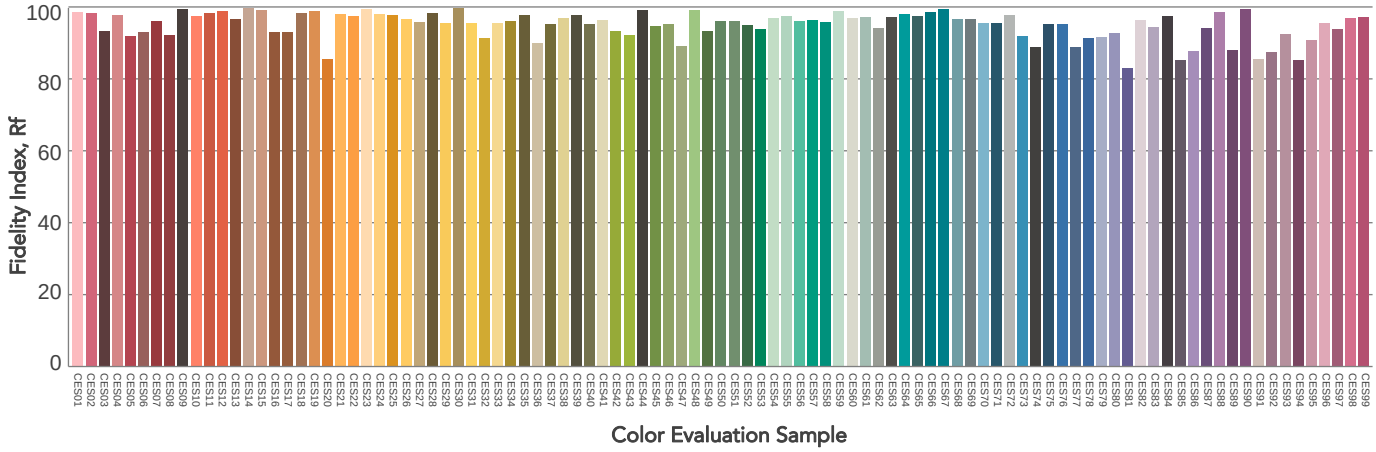












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Via A. Olivetti snc
04026 - Minturno (LT) ITALY
Tel: +39 0771 72190

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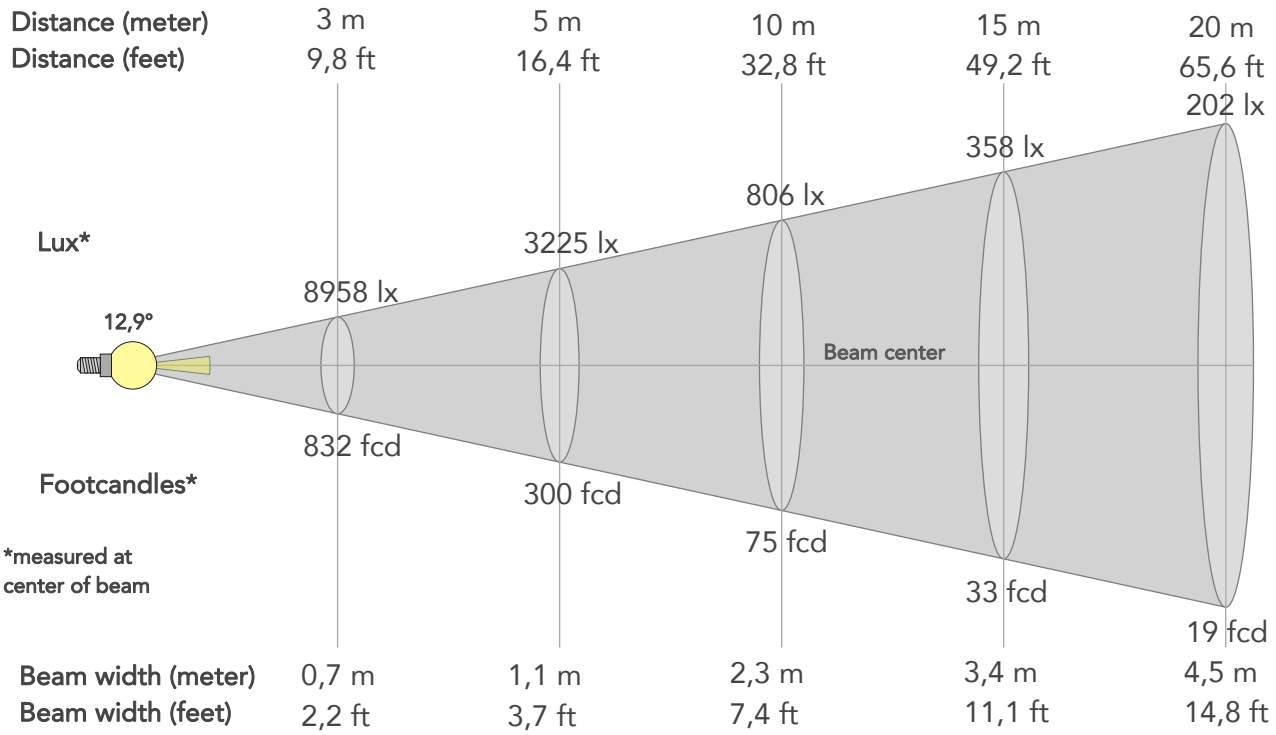
BEAM DETAILS

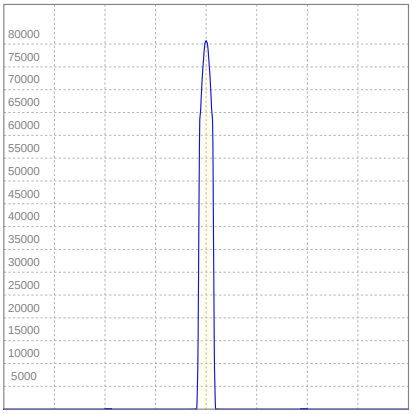
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
12,9°	15,4°	16,3°	100,0%	100,0%



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	80619lx	20155lx	8958lx	5039lx	3225lx	1433lx	806lx	358lx	202lx	129lx	90lx	50lx	32lx
Footcand.	7490fcd	1872fcd	832fcd	468fcd	300fcd	133fcd	75fcd	33fcd	19fcd	12fcd	8fcd	5fcd	3fcd
Beam wid.	0,2m	0,5m	0,7m	0,9m	1,1m	1,7m	2,3m	3,4m	4,5m	5,6m	6,8m	9m	11,3m
Beam wid.	0,7ft	1,5ft	2,2ft	3ft	3,7ft	5,6ft	7,4ft	11,1ft	14,8ft	18,5ft	22,2ft	29,6ft	37,1ft

LINEAR DISTRIBUTION DIAGRAM



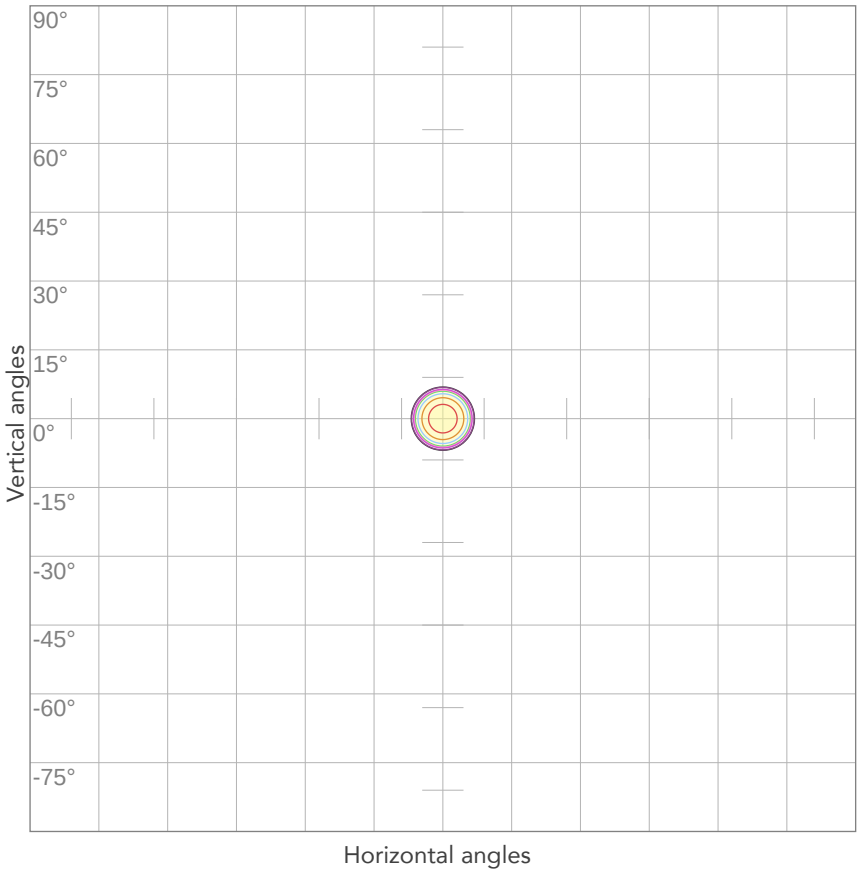
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
228V	0,625A	132,5W	23lm/W

Power Fc
0,97

ISO DIAGRAMS

ISO CANDELA DIAGRAM



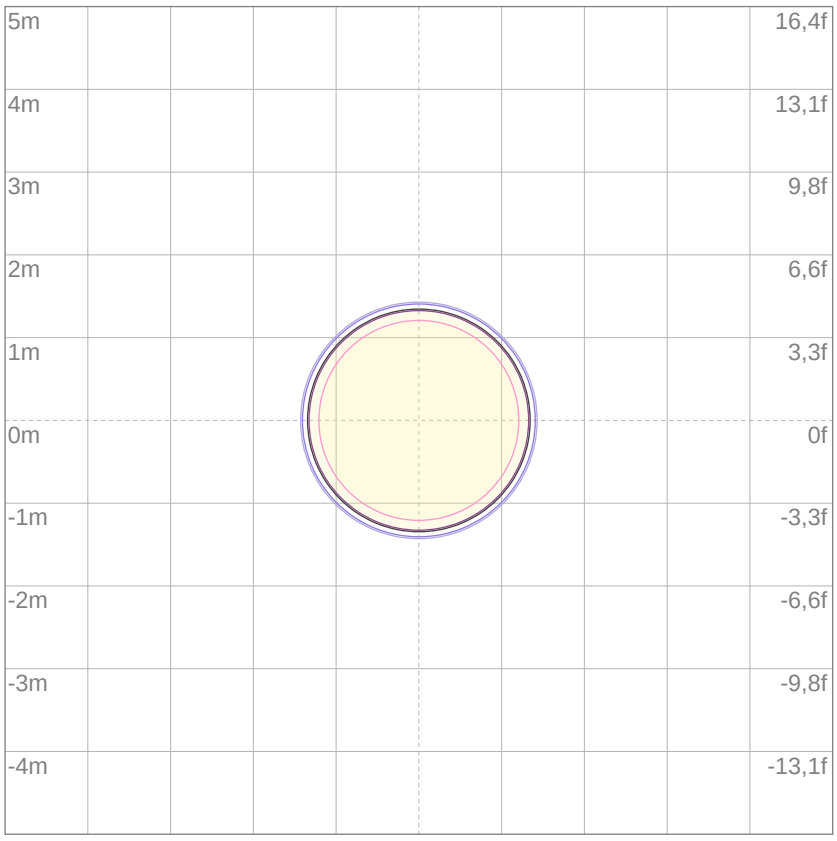
10%	8062 cd
20%	16124 cd
30%	24186 cd
40%	32248 cd
50%	40310 cd
60%	48372 cd
70%	56434 cd
80%	64495 cd

Conditions:

Number of c-planes: 2

Candela at center: 80619 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	24,2 lx
5%	40,3 lx
10%	80,6 lx
30%	242 lx
50%	403 lx

Conditions:

Number of c-planes: 2

Lux at center: 806 lx

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